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ABSTRACTS
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TITLES
ORGANIZATIONS
AUTHORS
SUBJECT AREAS
EXTRAMURAL NUMBERS

ORD PUBLICATIONS SUMMARY

SEPTEMBER 1976

U. S. ENVIRONMENTAL PROTECTION AGENCY
Office of Research and Development
Cincinnati, Ohio 45268

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This summary is a current listing of the Office of Research and Development's final reports on in-house, grant, contract, and interagency projects. Reports are indexed by Title, Subject Area, Performing Organization, Personal Author, Report Number, and Grant, Contract, or Interagency Agreement Number to aid the reader in identifying reports of interest. Instructions on how to order copies of reports are on the inside of the front cover.

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ORD PUBLICATIONS SUMMARY

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U.S. Environmental Protection Agency
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Cincinnati, Ohio 45268

ATTENTION

On June 29, 1975, the Office of Research and Development (ORD) was officially reorganized. One of the major impacts of this reorganization was to eliminate the former National Environmental Research Center (NERC) management structure for field operation and establish 15 individual laboratories which report directly to headquarters. As a result, the report number prefixes formerly associated with the NERC's have been replaced by one prefix (600) which represents all of ORD technical reports. Any questions arising from this report number change may be directed to the Technical Information Staff, Cincinnati, Ohio 45268, telephone 513/684-7281.

SEE INSIDE OF FRONT COVER FOR "HOW TO ORDER" REPORTS

FOREWORD

This is the seventh issue of the Office of Research and Development's (ORD's) quarterly **ORD PUBLICATIONS SUMMARY**. This **Summary** is intended to provide a current listing (since July 1973) of ORD's final reports on in-house, grant, contract, and interagency projects. A New Report Abstracts Section is included in the **Summary** to provide brief abstracts of recently printed reports, as well as indices by Title, Subject Area, Performing Organization, Personal Author, Report Number, and Grant, Contract, or Interagency Agreement Number to aid the reader in identifying reports of interest. Instructions on how to order copies of reports are on the inside of the front cover. Comments on how this **Summary** would serve the reader more effectively would be appreciated.

WK Talley

Wilson K. Talley
Assistant Administrator for
Research and Development

SERIES DESCRIPTION

The U.S. Environmental Protection Agency (EPA) was formed in late 1970 from programs in several executive agencies, i.e., the Department of Health, Education, and Welfare (air pollution, solid waste, radiation, water hygiene, and noise), the Department of the Interior (water pollution), and the Department of Agriculture (pesticide regulation). In July 1972, EPA's Office of Research and Monitoring (now Office of Research and Development, ORD) established an office-wide series of designations within which each research report would be published. The series can be used to describe the general thrust of EPA research and development and also to aid in identifying the use for each report. The present numbering system and cover color for each report is keyed to this Series Description.

SERIES 1 – ENVIRONMENTAL HEALTH EFFECTS RESEARCH (yellow covers)

Assigned to Series 1 are projects and studies relating to human tolerances for harmful substances or conditions, generally assessed from a health effects viewpoint. In addition to toxicology and other medical specialties, study areas include physiological or psychological studies, and the development of biomedical instrumentation.

SERIES 2 – ENVIRONMENTAL PROTECTION TECHNOLOGY (light blue covers)

Series 2 includes research performed to develop and demonstrate instrumentation, equipment, and methodology to repair or prevent environmental degradation from point and nonpoint sources of pollution. This work provides the new or improved technology necessary to control and treat pollution sources to meet environmental quality standards.

SERIES 3 – ECOLOGICAL RESEARCH (light green covers)

Series 3 includes investigations of the long- and short-term effects of pollutants on plants, animals, and materials. Research includes formation, transport, and pathway studies to determine the fate and effects of pollutants to provide the basis for setting standards to minimize pollution effects on aquatic, terrestrial, and atmospheric environments.

SERIES 4 – ENVIRONMENTAL MONITORING (gray covers)

Research conducted to develop new or improved methods, instrumentation, and quality assurance techniques and procedures to accurately identify and quantify environmental pollutants is included in Series 4. Also included are the studies to determine the ambient concentration of pollutants or the variance of pollutants as a function of time and/or meteorological factors.

SERIES 5 – SOCIOECONOMIC ENVIRONMENTAL STUDIES (rust covers)

Series 5 reports document research and development efforts that are related to the socioeconomic impacts of pollution and its abatement. They also cover the potential to use institutional management and regulation action as tools to reduce pollution. Specific areas of investigation might include land use alternatives, economic impact of regulation, planning methods for state and local government offices responsible for pollution abatement, and techniques for determining cost-benefit ratios for alternative pollution abatement options.

SERIES 6 – SCIENTIFIC AND TECHNICAL ASSESSMENT REPORTS (STAR) (dark blue covers)

In Series 6 are assessments of the available scientific and technical knowledge on major pollutants that would be helpful in regulatory decision making or evaluating a major area of completed study. The serie presents objective evaluations of existing knowledge— evaluations that point out its completeness, the validity of its data base and the uncertainties and gaps that may exist. Most reports are multimedia in scope focusing on a single medium only to the extent warranted.

SERIES 7 – INTERAGENCY ENERGY-ENVIRONMENT RESEARCH AND DEVELOPMENT (dark green)

Reports in this series result from the effort funded under the 17-agency Federal Energy-Environmental Research and Development Program. These studies relate to EPA's mission to protect the public health and welfare from adverse effects of pollutants associated with energy systems. The goal of the Program is to assure the rapid development of domestic energy supplies in an environmentally-compatible manner by providing the necessary environmental data and control technology. Investigations include analyses of the transport of energy-related pollutants and their health and ecological effects; assessments and development of control technologies for energy systems; and integrated assessments of a wide range of energy-related environmental issues.

SERIES 8 – "SPECIAL" REPORTS (covers of varying design)

This series is reserved for reports which are intended to meet the technical information needs of specifically targeted user groups. Reports in this series include Problem Oriented Reports, Research Application Reports, and Executive Summary Documents. Typical examples of these reports include state-of-the-art analyses, technology assessments, reports on the results of major research and development efforts, desgign manuals, user manuals, etc.

SERIES 9 – MISCELLANEOUS (covers of various designs)

Series 9 is used for all reports issued by ORD not applicable to one of the series described above.

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USERS' GUIDE

This volume contains an abstract section, a bibliographic section, and six indices. Within each index, reports are cross-referenced to the Bibliographic Section by report number. The bibliographic section and indices are cumulative so you need only refer to the most recent issue for ordering information.

NEW REPORT ABSTRACTS SECTION

This section contains a brief abstract of each recently printed report. An abstract will appear in only one issue so if you need copies of abstracts for reference purposes, you must retain each issue of the **Summary**. If no source is shown in the Bibliographic Section, the report is not yet available. Future issues of the **Summary** will note those reports for which an abstract has been published and indicate the issue in which the abstract appeared; e.g., ---Abstracted 600/9-74-001a---.

BIBLIOGRAPHIC SECTION

In the Bibliographic Section is a numerical listing of reports published since July 1973. The source of each report follows the bibliographic entry, and how to order instructions are given on the inside front cover.

TITLE INDEX

All reports are listed alphabetically by title; "A," "An," and "The" have been dropped from the beginnings of titles.

CURRENT SUBJECT AREA INDEX

This Current Subject Area Index provides a broad subject-matter index; each report is listed once, alphabetically by title, under the Subject Area concerned with the report's research. Reports not falling within a specific area such as bibliographies or annual reports, are listed under Miscellaneous Reports.

PERFORMING ORGANIZATION INDEX

This is an alphabetical listing of the organizations which conducted the research reported on in these reports. For grants or contracts, the organization is the grantee or contractor; for in-house reports, the organization is the EPA laboratory or office.

PERSONAL AUTHOR INDEX

The Personal Author Index lists alphabetically all authors of reports contained in the Bibliographic Section.

GRANT, CONTRACT, INTERAGENCY AGREEMENT NUMBER INDEX

This index contains a listing of ORD Contract, Grant, and Interagency Agreement numbers for which a final report has been produced. For each number listed the applicable report number is cross-referenced.

NEW REPORT ABSTRACTS SECTION

600/1-76-027a **PE 1AA601** **CONTRACT NO. 68-02-1226**

Ozone and Other Photochemical Oxidants – Volume I National Academy of Sciences Washington, DC

This report deals primarily with the origins and effects of ozone and other photochemical oxidants. It is limited, more or less, to the problem of urban pollution and to such closely related topics as natural background in the earth's boundary layer. No consideration is given to the stratospheric ozone layer and the effects produced by Supersonic Transport emissions or halocarbons. The first third of the report is concerned with the origins and measurement of ozone and other photochemical oxidants and the relationship of atmospheric concentrations to emissions. The middle third deals with toxicologic studies and effects on humans, and the last with effects on plants, ecosystems, and materials. EPA CONTACT: Stopinski, O.

600/1-76-028 **PE 1AA601** **CONTRACT NO. 68-02-1713**

Pharmacodynamics of Certain Endogenous Mammalian Antioxidants During NO_2 Exposure BY K. D. Lunan, and A. E. Brandt, Stanford Research Institute Menlo Park, CA

Rats exposed to atmospheres containing nitrogen dioxide (NO_2) in excess of 10 ppm showed a 50% increase in uptake of ^{14}C-alpha-tocopherol by the lung when compared with control rats maintained in ambient air. This increase was not observed in liver or blood, the retention of ^{14}C-alpha-tocopherol being the same in exposed and control animals. NO_2 exposure did not affect the half-life of ^{14}C-alpha-tocopherol in lung, liver, or blood. The liver of rats exposed to greater than 10 ppm NO_2 or to 1 ppm ozone showed a statistically significant ($P < 0.05$) increase in the level of alpha-tocopherol oxidation products compared with control rat liver, as judged by an increase in the ratio of alpha-tocopherol quinone plus alpha-tocopherol dimer to alpha-tocopherol. This increase was limited to the liver and was not observed in either lung or blood. Liver, lung, and blood of vitamin E-deficient rats exposed to 5 ppm NO_2 did not show any statistically significant increase in alpha-tocopherol oxidation products when compared with control tissues. No effect of NO_2 in ^{14}C-retinol acetate metabolism was observed. This research resulted in the first description of an enzyme involved in alpha-tocopherol metabolism – namely, a UDP-glucuronic acid:dihydro-alpha-tocopheronolactone glucuronosyl transferase, the final enzyme in alpha-tocopherol metabolism before excretion. The glucuronosyl transferase is a microsomal enzyme found predominantly in the liver, and does not require a divalent cation for activity, although it is stimulated by Sn^{++}, Ca^{++}, and Mg^{++}. EPA CONTACT: Goldstein, G. 8-629-2601

600/1-76-029 **PE 1AA601** **CONTRACT NO. 68-02-2266**

Analysis of Blood, Hair, Urine, and Dust Samples for Heavy Metals BY A. M. Yookum, Stewart Laboratories, Inc. Knoxville, TN

Communities from ten states in the United States and two cities in Mexico were studied. The communities were chosen for their proximity to primary non-ferrous smelter industries. Three lead and five zinc smelter areas were sampled for blood, hair, and dust. Urine, blood, hair, and dust were collected from fourteen copper smelter sites and four control cities. Samples were analyzed for arsenic, lead, cadmium, copper and zinc. EPA CONTACT: Hayes, C. 8-629-2674

600/1-76-030 **PE 1EA615** **CONTRACT NO. 68-02-1717**

Dietary Subacute Toxicity of Ethylenebisiothicyanate Sulfide in the Laboratory Rat BY R. I. Freudenthal, Battelle Columbus Laboratories Columbus, OH

Ethylenebisisothiocyanate sulfide (EBIS) was fed to groups of rats at 0, 1, 10, 100, and 1000 ppm for up to 90 days. Only those rats receiving EBIS at 1000 ppm demonstrated a toxic response to the test chemical reflected as a reversible paralysis of the hind legs noted within 8 to 14 days. If left on the 1000 ppm diet, the animals soon died. When removed from the diet, the animals recovered, only to become ataxic on further dietary exposure at the high level. No histologic lesion could be identified in either H & E or luxol fast blue stained sections of the brain, spinal cord, or peripheral nerves from the paralyzed animals. The ability to reverse the paralysis by removing the animals from the test diet coupled with the lack of histologically observable lesions adds credence to a proposed biochemical lesion. Ingestion of 1000 ppm EBIS for 7 days also resulted in measurable changes in thyroid function. Total serum thyroxine levels were markedly decreased as was iodide uptake by the thyroid. Dietary levels of 100, 10, 1 and 0 ppm EBIS for 90 days produced no observable toxicity. Growth as seen by body weight increases, diet consumption and thyroid function were normal. No EBIS related lesions were detected during the histopathologic evaluation of the 42 tissues taken from rats which received 100 ppm EBIS. A no effect level for this 90 day dietary study for EBIS is 100 ppm in the diet, equivalent to an average intake ranging from 67 mg/kg body weight at week 1 of 31 mg/kg body weight at week 12. EPA CONTACT: Baron, R. L. 8-629-2266

NEW REPORT ABSTRACTS SECTION

600/1-76-031 PE 1EA615 CONTRACT NO. 68-02-1715

In-Vivo Metabolism of Pentachloroaniline in Rhesus Monkeys BY A. P. Leber, and R. I. Freudenthal, Battelle Columbus Laboratories Columbus, OH

The metabolism of pentachloroaniline was determined in the rhesus monkey. ^{14}C-pentachloroaniline was orally administered to five rhesus monkeys. Blood, urine and feces were collected at designated times following dosing. The radioactive material in the biological samples was extracted and then separated by chromatographic procedures. The chemical structure of the major metabolite was characterized by mass spectrometry and nuclear magnetic resonance spectrometry, using a chemically synthesized reference standard. Radioactivity levels in the blood samples indicate large variation between individual animals with respect to rate of absorption and time of peak plasma radioactivity. Urinary excretion accounts for 33 to 67 percent of the administered dose while from 6 to 15 percent is excreted in feces. The major metabolite of pentachloroaniline, N-hydroxpentachloroaniline, is excreted in the urine. Only unchanged pentachloroaniline is found in the feces. A small amount of nitrosopentachlorobenzene, found in the urine samples, results from the spontaneous disproportionation of the N-hydroxy metabolite. Both pentachloroaniline and the N-hydroxy metabolite were tested for mutagenic activity using the two Salmonella tester strains, TA-1358 and TA-98 along with an activating system. Neither pentachloroaniline nor the N-hydroxy metabolite is mutagenic in the Ames assay system. EPA CONTACT: Baron, R. L. 8-629-2266

600/1-76-032 PE 1EA615 GRANT NO. 802500

DDT Levels in Milk of Rural Indigent Blacks BY B. T. Woodard, B. B. Ferguson, and D. J. Wilson, Meharry Medical College Nashville, TN

Human milk samples from low-income blacks residing in rural Mississippi and Arkansas and middle-class whites residing in metropolitan Nashville, Tennessee, were analyzed for DDT and its metabolites. The mean total DDT (DDE + DDT) whole milk concentration of 38 samples from indigent blacks between April and September, 1974 was 447 ppb (range 59 to 1900 ppb) and the mean of the 14 samples from Nashvillians during the same period was 75 ppb (range 15 to 133 ppb). Seven samples from the black population in JuneSeptember 1975 contained a mean total DDT of 323 ppb (range 185-721 ppb). This statistically significant difference in the DDT concentrations in the black and white populations indicates that the indigent blacks are still highly contaminated with pesticides even though the general use of DDT has been banned. Due to the limited amount of information from the donors, no correlation could be made between the DDT concentration and any factors other than race or socioeconomic group. EPA CONTACT: Baron, R. L. 8-629-2266

600/2-76-009a PE 1AB015 ROAP/TASK 21 AXM 062 CONTRACT NO. 68-02-2128

Odor Control by Scrubbing in the Rendering Industry—Addendum BY R. H. Snow, J. E. Huff, and W. Boehme, Fats and Proteins Research Foundation, Inc. Des Plaines, IL

The report gives results of a study extending an earlier project during which an investigation of the performance of packed-bed scrubbers for high-intensity rendering plant odors (5000 to 180,000 odor units) showed that, although in some cases the removal was as high as 99%, the average was only 85%. In this study, extensive performance data was obtained with an odor panel over a period of 8 weeks. Removal averaged 93% with three stages of sodium hypochlorite scrubbing even though each stage was designed to remove 99% of the odors based on its mass-transfer capacity. The results, fitted to a regression equation, showed that the important variables are the age of the solution and the relation of the inlet odor concentration to the previous history of exposure of the scrubbing solutions to high odor intensities. Chlorine concentration and pH also affect the results, and calcium hypochlorite is about 1.5 times more effective than sodium hypochlorite. The experimental data could be explained by assuming that about 85% of the odor was contributed by compounds that are oxidized by hypochlorite solutions, while the remaining fraction consists of compounds that are refractory to oxidation. Further efforts should be made to find scrubbing agents that will remove the odorous compounds that are refractory to hypochlorite. EPA CONTACT: Wooldridge, E. J. 8-629-2547

600/2-76-046c PE EHB525 CONTRACT NO. 68-02-1316

Preliminary Emissions Assessment of Conventional Stationary Combustion Systems – Volume III. Update (12/75-6/76) BY N. Surprenant, GCA Corporation Bedford, MA

The report updates Volume II of this series (EPA-600/2-76-046b). It identifies and discusses major recent ongoing and proposed programs in the area of pollutant emissions from combustion sources. The information presented covers the period from December 1975 to June 1976 and was through a review of the literature and contact with governmental and industrial representatives. EPA CONTACT: Venezia, R. A. 8-629-2547

NEW REPORT ABSTRACTS SECTION

600/2–76–103 PE 1BC611 CONTRACT NO. 68–03–0455

Ammonia Removal from Wastewater by Ligand Exchange BY L. M. Smith, G. A. Lyerly, and M. E. Dooley, Gillette Research Institute Rockville, MD

The use of a ligand exchange process to remove ammonia from secondary treated municipal wastewater was examined in a laboratory study. A ligand exchanger consisting of copper ions retained on a hydrous zirconium oxide ion exchanger was examined. Its ability to remove ammonia and subsequent regeneration with low pressure steam was evaluated. The main objective of the program was to optimize the conditions to achieve maximum efficiency and to determine the effect of other wastewater constituents on the process. Initially, the capacity of the hydrous zirconium oxide for copper was examined to determine the conditions for maximum copper loading. The capacity of this ligand exchanger for ammonia at various pH's was measured. The effect of temperature and time on steam regeneration of the exhausted exchanger was obtained. The effect of specific inorganic ions on the process and the effect of organics on the ligand exchange process with steam regeneration was investigated. Exchange capacity after repeated loading and recycling was measured. Finally, the process performance was demonstrated using lime clarified, secondary municipal effluent. EPA CONTACT: Dobbs, R. A. 8–684–7649

600/2–76–104 PE 1BC611 GRANT NO. 803099

Nutrient Control by Plant Modification at El Lago, Texas BY B. W. Ryan, Harris County Water Control and Improvement District No. 5 El Lago, TX E. F. Barth, Municipal Environmental Research Laboratory, EPA Cincinnati, OH

A project was conducted to demonstrate the feasibility of modifying an existing small trickling filter plant to control nutrients in wastewater discharge. All existing facilities of the nominal 0.3 mgd plant were utilized in the advance waste treatment design. The processes control phosphorus by metallic salt addition to the primary settler, carbonaceous oxygen demand by trickling filters, and nitrogenous oxygen demand by suspended growth second stage activated sludge. Nitrogen is removed via attached growth column denitrification, and tertiary solids removal is accomplished by granular media filtration. These processes are operated in series. Process evaluation shows that an effluent with the following residual concentrations can be obtained at the design flow of 0.3 mgd: Biochemical oxygen demand, 5 day – 4 mg/1; Chemical oxygen demand – 25 mg/1; Suspended solids – 2 mg/1; Total phosphorus – 1 mg/1 and Total nitrogenous content – 2 mg/1. EPA CONTACT: Barth, E. F. 8–684–7641

600/2–76–113 PE 1BB041 ROAP/TASK 21 BEA 008 GRANT NO. 803063

Oil Spill and Oil Pollution Reports, August 1975 – October 1975 BY P. Melvin, and R. M. Ross, California, University of, Marine Science Institute Santa Barbara, CA

The August 1975 – October 1975 Oil Spill and Oil Pollution Reports is the fifth quarterly compilation of oil spill events and oil pollution report summaries. Presented in the report are: (a) summaries of oil spill events; (b) summaries and bibliographic literature citations; (c) summaries of current research projects; and (d) patent summaries. EPA CONTACT: Dorrler, J. S. 8–342–7508

600/2–76–117 PE 1BB040 CONTRACT NO. 68–03–2139

Effectiveness of Surface Mine Sedimentation Ponds BY D. V. Kathuria, M. A. Nawrocki, and B. C. Becker, Hittman Associates, Inc. Columbia, MD

An in-field evaluation of the effectiveness of sediment ponds in reducing suspended solids in the runoff from surface mining activities was performed. Nine selected sedimentation ponds in the three eastern coal-mining States of Pennsylvania, West Virginia, and Kentucky were sampled under two different operating conditions—a baseline and a rainfall event. Their theoretical and actual efficiency of removal of suspended solids were computed and compared. In general, poor construction and inadequate maintenance of these ponds were found to be the major problem areas. The ponds had generally higher removal efficiencies during the baseline sampling period and much lower efficiencies during the storm event. The theoretically predicted efficiency of the ponds was essentially the same as the actual efficiency under baseline conditions. During the rainfall event, there was generally little or no correlation between the theoretical and actual efficiencies. The predicted efficiencies were found to be much higher than the actual efficiencies during the rainfall event in most cases. EPA CONTACT: Hill, R. D. 8–684–4410

600/2–76–127 PE 1BB041 GRANT NO. 15080 HGX

Temperature Effects of Crude Oil in the Upper Intertidal Zone BY D. Straughan, Southern California, University of, Allan Hancock Foundation Los Angeles, CA

Experiments were conducted in the field and laboratory in Southern California to determine the effects of heavy black asphaltic Santa Barbara crude oil on the intertidal barnacle *Chthamalus fissus*. Observations were also made on surfaces in the Santa Barbara Channel oiled following the 1969 Santa Barbara oil spill. The data presented support the original hypothesis that this type of oil acts as a black body. It is this "black body" effect which has a long term influence on *Chthamalus fissus* distribution after the oil has developed a hard surface crust. This is based on the following observations: 1. larvae can settle, survive, and grow on the dry oil (tar); 2. larvae prefer a black surface to a light surface; 3. temperature stresses are greater on a black surface than on a light surface. EPA CONTACT: Nadeau, R. J.

NEW REPORT ABSTRACTS SECTION

600/2-76-128 PE 1BB040 GRANT NO. 801273

Feasibility of Elk Creek Acid Mine Drainage Abatement Project BY L. D. Loy Jr., and J. W. Gunnett, Skelly & Loy, Engineers and Consultants Harrisburg, PA

A detailed study was conducted within the Elk Creek Watershed, West Virginia to determine the technical and economic feasibility of three acid mine drainage abatement techniques. Alkaline regrading and slurry trench construction were established as technically and economically viable abatement techniques at four or five potential demonstration project sites, while mine roof collapse was considered feasible at one location. Alkaline regrading-reworking existing alkaline sooil material-is a method for improving neutralizing capabilities and facilitating slurry trench installation. The slurry trench abatement technique involves construction of an imperable underground dam in alkaline strip mine spoil to cause inundation with acid mine drainage and thus prolong neutralization. Collapsing abandoned deep mine entries results in partial mine flooding and exposes mine waters to alkaline roof material. Backfilling and regrading practices associated with recent surface mining has produced significant water quality improvement in the Elk Creek Watershed. Demonstration of alkaline regrading, slurry trenching and mine roof collapse as viable abatement techniques will provide the technology for prolonging beneficial effects of current surface mining and facilitate elimination of acid discharge from abandoned mines. EPA CONTACT: Scott, R.

600/2-76-129 PE 1BB041 ROAP/TASK 21 BEA 008 GRANT NO. 803063

Oil Spill and Oil Pollution Reports, May 1975 – July 1975 BY F. A. DeWitt Jr., P. Melvin, and R. M. Ross, California, University of, Marine Science Institute Santa Barbara, CA

The May 1975 – July 1975 Oil Spill and Oil Pollution Reports is the fourth quarterly compilation of oil spill events and oil pollution reportsummaries. Presented in the report are: (a) summaries of oil spill events; (b) summaries and bibliographic literature citations; (c) summaries of current research projects; and (d) patent summaries. EPA CONTACT: Dorrler, J. S. 8-342-7508

600/2-76-145 PE 1BC611 CONTRACT NO. 68-03-0335

Methodology for the Study of Urban Storm Generated Pollution and Control BY R. E. Wullschleger, A. E. Zanoni, and C. A. Hansen, Envirex, Inc. Milwaukee, WI

This report contains recommendations for standard procedures to be followed in the conduct of projects dealing with pollution assessment and abatement of storm generated discharges. The purpose of this project was to develop standard procedures needed to insure that all discharges and treatment processes could be evaluated by the same means. The procedures chosen were those found to be the most applicable and optimum for the field of storm and combined sewer overflow pollution control. The project efforts were devoted to the following major areas: 1. recommended methods for sampling and sample preservation; 2. appropriate monitoring instrumentation available; 3. the choice of quality parameters to be utilized; 4. the analytical procedures to be followed; 5. the methods for evaluating storm generated discharge pollution; and 6. the standard procedures for evaluating treatment processes treating storm generated flows. Choice of the recommended procedures was based upon the U.S. EPA research and demonstration project reports in this and associated fields, other published literature, ongoing U.S. EPA funded projects, and the contractor's experience in the field of stormwater pollution control. EPA CONTACT: Field, R. 8-342-7503

600/2-76-148 PE 1DC618 CONTRACT NO. 68-03-2395

Fuel and Energy Production by Bioconversion of Waste Materials: State-of-the-Art BY S. A. Ware, Ebon Research Systems Silver Spring, MD

This report is a state-of-the-art summary of biological processes for converting waste cellulosic materials (agricultural, municipal and lumbering wastes) to fuels. It indicates the locations and quantities of suitable wastes and discusses the status of the current processing schemes. The processes discussed are: acid hydrolysis followed by fermentation, enzyme hydrolysis followed by fermentation, anaerobic digestion of manure and municipal solid waste, and biophotolysis. Cost data for these processes are given and, where possible, compared. The range of cost was $1.39 to approximately $5.00 per million BTU of net energy output. It was concluded that energy production by these methods on a national scale can, at best, produce the equivalent of only about 3 million barrels of oil per day by 1980. These may, however, be economical and environmentally acceptable means of waste management which should be explored further. EPA CONTACT: Weitzman, L.

NEW REPORT ABSTRACTS SECTION

600/2-76-158 PE 1HB617 GRANT NO. 801187

Nitrogen and Irrigation Management to Reduce Return-Flow Pollution in the Columbia Basin BY B. L. McNeal, and B. L. Carlile, Washington State University Pullam, WA

Cooperative field studies have evaluated dissolved-N levels and leaching, and corresponding crop yields, for potato production practices in the Columbia Basin area of Washington. High dissolved-N levels (with resultant high potential for return-flow pollution) were found throughout the growing season in well-managed potato fields, with levels decreased by decreasing fertilization rate, use of slow-release N fertilizers or nitrification inhibitors, or sprinkler application of N fertilizers. Careful water management with solid-set sprinkler proved capable of maintaining dissolved-N within the root zone of subsequent crops by season's end, even on very sandy sites. Alternate-furrow irrigation proved effective in "trapping" banded fertilizer N within the plant root zone on heavier-textured furrow-irrigated soils. Periodic "mining" of residual N by other crops in the rotation would still be necessary to prevent eventual return-flow contamination, however. Site-to-site sampling variability necessitates the use of composited soil samples, rather than fixed-position soil solution extraction cups, for adequate monitoring of N in soils of this area. Neither dissolved soil N nor plant petiole nitrate-N proved to be reliable predictors of crop N needs under the conditions tested. EPA CONTACT: Law Jr., J. P.

600/2-76-175a PE 1BC611 CONTRACT NO. 68-03-0251

Assessment of Mathematical Models for Storm and Combined Sewer Management BY A. Brandstetter, Battelle Pacific Northwest Laboratories Richland, WA

Mathematical models for the nonsteady simulation of urban runoff were evaluated to determine their suitability for the engineering assessment, planning, design and control of storm and combined sewerage systems. The models were evaluated on the basis of information published by the model builders and model users. Seven models were also tested by computer runs using both hypothetical and real catchment data. Most of the models evaluated include the nonsteady simulation of the rainfall-runoff process and flow routing in sewers; a few include also the simulation of wastewater quality, options for dimensioning sewerage system components, and features for real-time control of overflows during rainstorms. EPA CONTACT: Fan, C. Y.

600/2-76-177b PE EHB529 CONTRACT NO. 68-02-2112

Fuel Contaminants: Volume II. Removal Technology Evaluations BY E. J. Mezey, S. Singh, and D. W. Hissong, Battelle Columbus Laboratories Columbus, OH

The report reviews the methods used to remove sources of sulfur, nitrogen, and trace element pollutants from coal, coal liquids, petroleum, tar sand oils, and shale oils. The evaluation is restricted to systems that remove contaminants before combustion. The survey identifies contaminant removal methods which were used successfully in the past, are used now, or which, although previously unsuccessful, might be used successfully today. The evaluations generally indicate that no single method is effective for removing all of the contaminants from the fuels under consideration, yet permitting the fuel to be recovered unaltered in form and quality. Some methods release the contaminants but the actual removal requires additional processing. Combined processes might offer advantages to overcome the limitations of single-function processes. EPA CONTACT: Rhodes, W. J. 8-629-2851

600/2-76-182 PE 1DC618 IAG NO. IAG-D4-0569

Pollutant Potential of Raw and Chemically Fixed Hazardous Industrial Wastes and Flue Gas Desulfurization Sludges – Interim Report BY J. L. Mahloch, D. E. Averett, and M. J. Bartos Jr., U.S. Army Engineer Waterways Experiment Station Vicksburg, MS

This report presents an interim summary of current research dealing with the effects of chemical fixation on disposal of hazardous industrial waste residues and flue gas desulfurization (FGD) sludges. Present research involves both leaching and physical tests of raw and chemically fixed industrial wastes and FGD sludges. The intent of the study is to examine the potential environmental impact of raw sludge disposal and to assess the technical merits of sludge fixation as a disposal pretreatment process. Both objectives are being accomplished by leachate testing, which can be evaluated by comparison to the raw sludges and by durability testing, which reflects the environmental stability of the fixed products. Major points of discussion within this report are the methods for physical and chemical analyses, documentation of the various sludge fixation processes, and a discussion of physical and chemical data that are presently available. Since the project is only partially completed, parameters and data have been selected that are representative of current progress. Physical data include the description parameters for the raw sludges and engineering properties of the fixed sludges that have been completed. Chemical properties related to leachate testing include the descriptive parameters pH and conductivity, plus the pollutants sulfate and copper. EPA CONTACT: Landreth, R. E. 8-684-7876

NEW REPORT ABSTRACTS SECTION

600/2-76-183 **PE 1BB610** **GRANT NO. 802526**

Feasibility Study Fly Ash Reclamation of Surface Mines – Hillman State Park BY M. T. Dougherty, and H. H. Holzen, Ackenheil and Associates, Inc. Pittsburgh, PA

The study was performed to determine the technical and economic aspects of surface treatment of regraded acidic strip mine spoils with pulverized fuel fly ash as a method to produce a soil cover which will sustain grasses and legumes and also enhance abatement of mine drainage. Data on present stream water quality of Hillman State Park was obtained to establish a set of parameters which will be used for comparison with future water quality analysis in order to determine effects of construction and the application of fly ash to the water quality. Other criteria used in this evaluation include: pH of strip mine spoil material and fly ash; moisture retention characteristics of spoils and spoils treated with fly ash; and grain size distribution of spoils treated with fly ash. The feasibility study results indicate this demonstration project would be technically feasible and the reclamation would be effective to produce useable land and improve water quality. Alkalinity in the tributaries affected by the demonstration project should increase approximately 200 milligrams per liter. The estimated cost of the demonstration construction project is about $900,000 for restoration of surface drainage to the 340 acre (138 hectare) site. Fly ash will be applied to approximately 180 acres (73 hectares) of the site which are being regraded and revegetated at an approximate additional cost of $70,000. EPA CONTACT: Grim, E. C. 8-684-4417

600/2-76-184 **PE 1BB040** **GRANT NO. 802603-01**

Extensive Overburden Potentials for Soil and Water Quality BY R. M. Smith, A. A. Sobek, T. Arkle Jr., J. C. Sencindiver, and J. R. Freeman, West Virginia University Morgantown, WV

Chemical, physical and mineralogical measurements and interpretations developed during previous studies in West Virginia have been improved and applied to coal overburden columns in 12 widely spaced Neighborhoods and 2 Adjunct locations in 10 states, from Pennsylvania on the northeast to Alabama on the southeast and Oklahoma on the west. Field studies in each Neighborhood and Adjunct location involved logging and sampling soil and rock horizons from surface to coal, testing and improving field clues, determining properties of mine soils and water resulting from mining operations, and checking reclamation. Results in different coal basins have broadened our perspectives and strengthened our conclusions. Refinements have been made in field observations, laboratory methods and interpretations related to kinds of minesoils and anticipated uses of mined lands. Consistent overburden property relationships within basins and over particular named coals provide opportunities for generalizations and extrapolation between sampled sites. It appears feasible to use detailed information from overburden sampling and analysis as an aid to pre-mining planning of surface mining operations including reclamation and projected land use. EPA CONTACT: Grim, E. C. 8-684-4417

600/2-76-185 **PE 1BB041** **GRANT NO. 803992-01**

Oil Spill and Oil Pollution Reports, November 1975 – January 1976 BY P. Melvin, and R. M. Ross, California, University of, Marine Science Institute Santa Barbara, CA

The November 1975 – January 1976 Oil Spill and Oil Pollution Reports is a sixth quarterly compilation of oil spill events and oil pollution report summaries. Presented in the report are: (a) summaries of oil spill events; (b) summaries and bibliographic literature citations; (c) summaries of current research projects; and (d) patent summaries. EPA CONTACT: Dorrler, J. S. 8-342-7508

600/2-76-188 **PE 1BB039** **GRANT NO. 802532**

Animal Waste Management in the Northern Great Plaines BY M. L. Horton, J. L. Wiersma, and J. L. Halbeisen, South Dakota State University, Water Resources Institute Brookings, SD

The effect of salt level of the ration for beef steers upon salinity of the waste and the effects of the applied waste upon the soil and upon crop production was investigated. In addition, the study was conducted in both covered and open feedlot pens to study the effect of shelter in a northern climate upon animal performance and waste characteristics. The field portion of the study included four rates of waste up to 179 MT/ha. applied to plots 0.02 ha. in size. Detailed soil analyses were made which included salinity, nutrients, cations, and the dispersion hazard as indicated by the level of exchangeable sodium. The levels of salt used in the ration appeared to have little or no effect on animal performance; however, the salinity and sodium levels of the waste were directly affected. The salinity level of the surface 30 cm of soil where high rates of waste were applied was sufficiently high to affect the growth of corn. The lack of leaching water caused a maximum effect of the applied waste in the surface layer. EPA CONTACT: Kreis, D. 8-743-2302

NEW REPORT ABSTRACTS SECTION

600/2-76-189 **PE 1HB617** **GRANT NO. 801454-03**

Livestock and the Environment: A Bibliography with Abstracts— Volume III BY M. L. Rowe, and L. Merryman, East Central Oklahoma State University Ada, OK

Management and research information on animal wastes has expanded rapidly in recent years. This material has appeared in such diverse sources as journal articles, conference papers, university publications, government publications, magazine articles, books or book chapters, and theses. This bibliography was compiled in order to speed the flow of information on findings in one segment of the livestock industry to other segments that could benefit from this technology. Included in this publication are the following indexes: (1) author, (2) keyword, and (3) animal information categories. These indexes are followed by a section of abstracts of each reference entry found in the bibliography. Single copies of most articles can be obtained in hard copy or microfiche form at cost from the Animal Waste Technical Information Center, School of Environmental Science, East Central Oklahoma State University, Ada, Oklahoma 74820. EPA CONTACT: Kreis, R. D. 8-743-2302

600/2-76-190 **PE 1BB039** **GRANT NO. 800767**

Design Parameters for Animal Waste Treatment Systems – Nitrogen Control BY R. C. Loehr, T. B. S. Prakasam, E. G. Srinath, T. W. Scott, and T. W. Bateman, Cornell University Ithaca, NY

The objectives of this study were to: (a) develop design criteria for nitrogen and odor control in animal waste stabilization systems; (b) demonstrate the feasibility of nitrogen control using the oxidation ditch; (c) determine the rate, form, and time of manure application permissible without causing surface or groundwater pollution; and (d) determine the optimum rate, form, and time of application for best crop response. Laboratory, pilot plant, and full scale studies were conducted to develop design parameters for odor and nitrogen control. Information concerning the fate of manurial nitrogen and crop response was derived from agronomic field studies. A method of determining oxygen requirements for stabilization based on exerted carbonaceous and nitrogenous oxygen demand was developed. Controlled nitrogen removal in the range of 30 to 90 percent was demonstrated. Nitrogen losses were due to ammonia volatilization and/or nitrification-denitrification. Field studies indicated no differences between raw and aerobically stabilized poultry manure in nutrient availability to plants or surface runoff losses. At a given rate of manure application, soil nitrate levels were higher under corn in comparison to grasses. The maximum recommended application rate of poultry manure for corn was 224 kg N/ha. Application rates for grasses were limited to 100–170 kg N/ha by plant response. EPA CONTACT: Mulkey, L. A. 8-289-3581

600/2-76-191 **PE 1AA010** **CONTRACT NO. 68-01-1774**

Infrared Absorption by Sulfuric Acid Vapor BY D. E. Burch, F. J. Gates, and N. Potter, Aeronutronic Ford Corporation Newport Beach, CA

A sample cell has been designed and built to contain hot H_2SO_4 vapor for spectroscopic analysis. The cell is heated to between 190° and 250°C by an electric furnace designed specifically for use with the sample cell. A small bulb connected to the main compartment of the sample cell contains liquid H_2SO_4. The partial pressure of the H_2SO_4 vapor is controlled by regulating the temperature of the liquid H_2SO_4, which is at lower temperature than any other part of the cell that is in contact with the vapor. Transmission curves have been scanned for a variety of samples over the 7.8 micrometers – 12.8 micrometers region with spectral slitwidths between 0.5 cm^{-1} and 4 cm^{-1}. At wavelengths of maximum absorption near 8.2 micrometers and 11.4 micrometers, the absorption coefficient is approximately 0.0004 $(ppm - meters)^{-1}$. EPA CONTACT: Rollins, R.

600/2-76-192 **PE 1AA010** **GRANT NO. 803126-01**

Filtration Characteristics of Glass Fiber Filter Media at Elevated Temperatures BY D. A. Lundgren, and T. C. Gunderson, Florida, University of Gainesville, FL

Particle collection characteristics of a newly developed, high-purity "Microquartz" fiber filter media and a Gelman Type A glass fiber filter media were evaluated over a range of temperatures (20°C to 540°C), particle sizes (0.05 micrometers to 26 micrometers), gas velocities (0.5 cm/sec to 51 cm/sec), and particle volatilities. Both types of high efficiency filters proved adequate (> 99.9% efficiency) for sampling nonvolatile particles over the above variable ranges. Nonvolatile particle penetration decreased with increasing temperature and increasing filter loading. The effect elevated temperature had on particle collection characteristics was not a determining factor in the application of high efficiency filters. The main problems encountered in the high temperature environment were filter holder leakage and volatilization of gas-borne particles that passed through the filter media. EPA CONTACT: Knapp, K. T.

600/2-76-193 **PE 1BB036** **GRANT NO. 800625**

Water Pollution Control in the Carbon and Alloy Steel Industry BY H. Bremmer, Data Graphics, Inc. Carnegie, PA

This report provides information relative to water pollution control practices in the carbon and alloy steel industries. The scope of information includes brief descriptions of the wastewater producing processes, detailed analysis of the raw wasteloads, identification of wastewater treatment methods, cost of treatment methods and an inventory of the steel industry. Coverage of steel industry activities includes coke plant operations, blast furnace systems, sinter plants, steelmaking facilities, various hot forming mills, pickling, cold reduction and plating technology. In many cases, generalized illustrations are utilized to describe typical industry situations. EPA CONTACT: Durham, H.

NEW REPORT ABSTRACTS SECTION

600/2-76-194 PE 1BB610 GRANT NO. 802196

Elimination of Water Pollution by Recycling Cement Plant Kiln Dust BY N. R. Greening, F. M. Miller, C. H. Weise, and H. Nagao, Portland Cement Association Skokie, IL

The efforts of this study have included determination of the feasibility of separation of cement plant kiln dust, into fractions which are alkali-rich and alkali-poor, with various pyroprocessing techniques. These have included fluidized bed and flame-spray methods. The study included the investigation of the effect of varying a number of process parameters on the achievement of four goals: 1) Effective feeding of the kiln dust raw material; 2) Maintenance of flame stability and of adequate temperature to achieve alkali volatilization; 3) Achievement of separation of the two aforementioned fractions until collection was complete; 4) Efficient collection of the two kiln dust fractions. The parameters varied were: The feeding system and fluidizing arrangement, the portion of the system designed for alkali entrapment, the dust collection mechanism, the temperature of the flame and collection system, and the collecting medium itself. Although the first two objectives were generally met, there seemed to be a degree of mutual exclusivity in the third and fourth objectives in some cases. However, optimization of operational parameters resulted in simultaneous achievement of all four goals. A theoretical study of the operative chemical parameters was made, and suggestions for achievement of these goals in other ways have been prepared. In light of the energy shortage which is a problem now and for the forseeable future, some of these suggestions may prove ultimately more practical than separation by pyroprocessing. EPA CONTACT: Wilson, D. L. 8-684-4248

600/2-76-196 PE EHE623 GRANT NO. 802682

Demonstration of Coal Mine Haul Road Sediment Control Techniques BY W. F. Grier, and C. F. Miller, Mayes, Sudderth and Etheredge, Inc. Lexington, KY

This report examines the feasibility of demonstrating the most effective methods of controlling erosion which results when land is disturbed and altered by the construction of access roads to coal mining operations in the steeply sloping areas of Appalachia. The methods of controlling erosion on haul roads as examined herein are techniques that can reasonably and economically be constructed by conventional equipment that is normally used or is available to coal operators. A method to collect qualitative data, by remote instrumentation, for evaluation of the effectiveness of the erosion control methods is also described. EPA CONTACT: Harris, E. F. 8-684-4417

600/2-76-199 PE 1AB015 ROAP/TASK 21 AUY 057 CONTRACT NO. 68-02-1325

Operation of a Sulfuric Acid Plant Using Blended Copper Smelter Gases BY B. H. Carpenter, Research Triangle Institute Research Triangle Park, NC

SO_x (SO_2 and SO_3) emissions from copper reverberatory furnace off-gases can possibly be controlled to a high degree by blending the off-gases with those from roasters and converters and using the combined streams as a feed to a sulfuric acid plant. The Bor (Yugoslavia) copper smelter experimented briefly with the technique. Bor reported that when reverberatory gases were introduced into the total gas mix, absorption of SO_3 in the acid plant apparently decreased, and a visible acid mist plume was observed. Bor attributed this poor acid plant operation to the high CO_2 content of the reverberatory furnace gases, a conclusion contrary to other known situations where acid plants operate well with CO_2-containing feed gas. The report gives results of an investigation of the effect of CO_2 in the feed gases to a sulfuric acid plant on plant performance and emission levels. Available data on gas blending experience in Bor was compared with the experience of U.S. acid plant builders to determine if CO_2 generally has an adverse effect or if other factors probably cause the acid plume formation experienced at Bor. The report indicated that the plume during gas stream blending at the Bor smelter is probably caused by an excessive load of sulfuric acid mist imposed upon the wet electrostatic precipitator that receives gases from the acid plant cooling system. EPA CONTACT: Hendricks, R. V. 8-629-2557

600/2-76-200 PE 1AB012 ROAP/TASK 21 ADL 002 CONTRACT NO. 68-02-1328

Study of Horizontal-Spray Flux Force/Condensation Scrubber BY S. Calvert, and S. C. Yung, A.P.T., Inc. San Diego, CA

The report gives results of a laboratory pilot-scale evaluation of a Flux Force/Condensation (FF/C) scrubber for collecting fine particles, those smaller than 2 micrometers in diameter. FF/C scrubbing includes the effects of diffusiophoresis, thermophoresis, Stefan flow, and particle growth due to water vapor condensation. The FF/C scrubber tested was of horizontal spray configurations. Effects of the scrubber configurations, liquid and gas flowrates, particle number concentration, and the amount of vapor condensation were studied experimentally. Fractional particle penetrations were measured with cascade impactors and are presented in terms of particle penetration as a function of particle size. The experimental results are compared with predictions from mathematical models. Optimum operational regions and the technical and economic feasibility of FF/C scrubbing are determined and demonstrated for a fine particle pollution source. It was confirmed that FF/C scrubbing is an attractive control method for fine particles when high efficiency is required or when the gas is hot enough to evaporate the necessary water vapor for condensation in the scrubber. A program to demonstrate FF/C scrubbing at pilot scale for the control of fine particulate emissions from industrial sources is described. EPA CONTACT: Sparks, L. E. 8-629-2925

NEW REPORT ABSTRACTS SECTION

600/2-76-201 PE 1AB013 ROAP/TASK 21 ACX 094 CONTRACT NO. 68-02-1411

Utility of Solid Sorbents for Sampling Organic Emissions from Stationary Sources BY A. D. Snyder, F. N. Hodgson, M. A. Kemmer, and J. R. McKendree, Monsanto Research Corporation Dayton, OH

The report gives results of a study to assess the utility of porous polymer adsorbents as a means of sampling and concentrating trace organic emissions from stationary sources. Emissions from two industrial field sites were sampled, using small porous polymer sampling tubes backed up by a cryogenic thermal-gradient sampling system to assess the efficiencies of adsorption of trace organic species. In addition to experimental results, conclusions, and recommendations, a detailed statement of the problem of sampling trace organics in industrial emissions is presented in the Appendices. This later discussion includes: the characteristics of stationary sources emitting organic species; and assessment of present sampling techniques for organic matter; a review of the use of porous polymer adsorbents in sampling; and the characteristics of porous polymer sorbents and their potential limiting properties. EPA CONTACT: Johnson, L. D. 8-629-2557

600/2-76-202 PE 1AB012 ROAP/TASK 21 ADL 004 CONTRACT NO. 68-02-1487

Laboratory Evaluation of the Cleanable High Efficiency Air Filter (CHEAF) BY M. T. Rei, and D. W. Cooper, GCA Corporation Bedford, MA

The report gives results of testing a novel scrubber, the Cleanable High Efficiency Air Filter (CHEAF), as part of a program to identify novel high efficiency fine particle control devices. The scrubber was tested at room temperature, using iron oxide aerosols of concentrations near 0.2 g/cu m (0.1 grain/cu ft), mass median aerodynamic diameter of 1.1 micrometers. Inlet and outlet samples were taken with cascade impactors, total mass filters, a condensation nuclei counter, and an optical particle counter. These tests were performed with different filter media, at different face velocities, and at different water spray rates and water recycle rates. Efficiency increased with increases in: foam pores per inch, pressure drop, flow rate, spray rate, and make-up water addition. The results were consistent with the hypothesis that impaction is the major collection mechanism and re-entrainment contributes substantially to penetration. Total mass efficiency was about 95 percent at normal conditions, for which the pressure drop across the CHEAF was 68 cm (27 in.) WC. The particle aerodynamic diameter, for which the efficiency would be 50 percent at these conditions, was below 0.5 micrometers, indicating that the CHEAF would have greater than 50 percent efficiency on finer particles than would a venturi scrubber operating at the same pressure drop. EPA CONTACT: Harmon, D. L. 8-629-2925

600/2-76-203 PE 1AB013 ROAP/TASK 21 ACX AE CONTRACT NO. 68-02-1412

Flow and Gas Sampling Manual BY E. F. Brooks, and R. L. Williams, TRW Systems Group Redondo Beach, CA

The manual summarizes work done on a project to measure volumetric flowrate and composition in gas-phase process streams. It is intended for use by measurement professionals to apply the developed techniques for continuous measurements of volumetric flowrate. Also presented are techniques for extracting a representative gas sample from a process stream. Information is given for selecting the optimum number of sampling points to achieve reasonable accuracy in a cost effective manner. EPA CONTACT: Kuykendal, W. B. 8-629-2557

600/2-76-204 PE EHE624 GRANT NO. 801441

Efficient Use of Fibrous Structures in Filtration BY M. Mohamed, and E. Afify, North Carolina State University Raleigh, NC

The report gives results of a project to develop fibrous structures for air filtration which are economical and efficient, and have low pressure drop. The structure of needle punched fabrics showed excellent characteristics as filter media. Fundamental studies were carried out to investigate the effect of different needled fabric parameters on their filtration performance and mechanical properties. High efficiency levels were obtained at relatively low pressure drop, compared to woven fabrics. Fabric parameters studied were: needling intensity, fiber orientation and length, needle size and penetration, scrim material, fabric weight, and number of passages through the needling process. Spunbonded scrims were used to improve the strength and dimensional stability of needle punched fabrics without sacrificing air permeability. The pressure drop for clean filters was predicted theoretically. Based on literature review of existing theories, the Brinkman model was used. Analytical study of the roles played by the various mechanisms of collection (using Dorman's theory) showed that the diffusion mechanism is not fully utilized in the developed needle punched fabrics. Based on the fundamental studies, fabrics were developed in which Cerex 1.5 oz/sq yd was used as scrim and punching was done on stages and from both sides. These fabrics have been evaluated in batch filter testing as well as baghouse application and were found superior in many respects to commercial fabrics. EPA CONTACT: Turner, J. H. 8-629-2925

NEW REPORT ABSTRACTS SECTION

600/2-76-206 PE 1BB610 GRANT NO. 802816

Treatment of Acid Mine Drainage by the Alumina-Lime-Soda Process BY J. W. Nebgen, D. F. Weatherman, M. Valentine, and E. P. Shea, Midwest Research Institute Kansas City, MO

The alumina-lime-soda process is a chemical desalination process for waters in which the principal sources of salinity are sulfate salts and has been field tested at the Commonwealth of Pennsylvania's Acid Mine Drainage Research Facility, Hollywood, Pennsylvania, as a method to recover potable water from acid mine drainage. The alumina-lime-soda process involves two treatment stages. Raw water is reacted with sodium aluminate and lime in the first stage to precipitate dissolved sulfate as calcium sulfoaluminate. In the second stage, the alkaline water (pH = 12.0) recovered from the first stage is carbonated to precipitate excess hardness. Following carbonation, product water meets USPHS specifications for drinking water. Alumina-lime-soda process economics are influenced most by the cost of sodium aluminate. Widespread application of the alumina-lime-soda process will increase demand for sodium aluminate, and should spur interest in alternate sources of this treatment chemical. Operating costs for recovering potable water from an acid mine drainage having an acidity of 700 mg/liter and a sulfate level of 750 mg/liter are estimated to be in the range of \$0.21 to \$0.27/m^3 (\$0.79 to \$1.04 per 1,000 gal). EPA CONTACT: Wilmoth, R.

600/2-76-207 PE 1BC611 GRANT NO. 803794

Wastewater Treatment by Natural and Artificial Marshes BY F. L. Spangler, W. E. Sloey, and D. W. Fetter Jr., Wisconsin, University of Oshkosh, WI

Investigations were conducted on the use of artificial and natural marshes as purifiers of effluent from municipal treatment plants. Observations were made on marsh influent and effluent quality. Phosphorus distribution in the ecosystem and removal by harvesting were studied. Responses of the vegetation to repeated harvesting were recorded. Artificial marshes consisted of plastic-lined excavations containing emergent vegetation, especially *Scirpus validus*, growing in gravel. Various combinations of retention time, primary effluent, secondary effluent, basin shape, and depth of planting medium were studied. A polluted natural marsh was studied simultaneously. The degree of improvement in water quality suggests that the process may be acceptable for certain treatment applications. Harvesting was not a practical phosphorus removal technique. Marshes remove phosphorus in the growing season, but release it at other times. Development of management techniques for successful use of marshes for wastewater treatment is thought possible. EPA CONTACT: Duffer, W. R.

600/2-76-208 PE EHB533 CONTRACT NO. 68-02-1324

Fine Shredding of Municipal Solid Waste BY K. P. Ananth, and J. Shum, Midwest Research Institute Kansas City, MO

The report gives an overview of equipment used for municipal solid waste (MSW) size reduction and discusses its performance and cost. Of the 11 basic equipment types used for shredding MSW, only hammermills and grinders find wide application. An evaluation of available hammermill and grinder performance data indicates that: their specific energy consumption is independent of throughput for the same product size distributions and feed characteristics (power, however, is a function of throughput); higher shaft speeds produce finer size distributions and require more energy for the same throughputs; smaller grate spacings (exit clearances) produce finer particles; and for constant feed and shredder operating conditions, specific energy consumption is a minimum at 30-40% refuse moisture content. On the basis of available cost estimates, the initial cost for shredders ranges from \$3528 to \$6174 per Mg/hr. Maintenance and operating cost are estimated to be \$0.77/Mg and \$0.55/Mg, respectively, for shredders of 90.7 Mg/hr capacity. Fine shredding performance or cost benefits information is not available. The need for fine shredding in most material/energy recovery systems is currently dictated by process constraints and the benefits may be system specific. Generally, fine shredding is expected to enhance both energy recovery (by improving combustion efficiency) and material recovery (by increased separation effectiveness). These benefits have not been documented yet. EPA CONTACT: Kilgroe, J. D. 8-629-2851

600/2-76-209 PE EHB533 CONTRACT NO. 68-02-1324

Performance of Emission Control Devices on Boilers Firing Municipal Solid Waste and Oil BY J. B. Galeski, and M. P. Shrag, Midwest Research Institute Kansas City, MO

The report gives results of estimating particulate flue gas loadings for combined firing of shredded municipal waste (MSW) and oil, using existing data on particulate emissions from oil-fired electric utility boilers and from waterwall (steam generating) incinerators firing either waste or waste-plus-coal/oil auxiliary fuel. Control device performance was estimated for several planned oil/MSW resource recovery systems. On the basis of these estimates, installed particulate emission controls, designed for coal, are predicted to be significantly less efficient for control of particulate emissions from combined firing of oil/MSW. Anticipated control difficulties result mostly from relatively high particulate loadings, high flue gas volumes, fine particulates, relatively low particle density, and relatively high fractions of carbonaceous low-resistivity particulate. EPA CONTACT: Kilgroe, J. D. 8-629-2851

NEW REPORT ABSTRACTS SECTION

600/2-76-210 **PE 1AD605** **CONTRACT NO. 68-02-2219**

Ambient Carbon Monoxide Monitor BY D. E. Burch, F. J. Gates, and J. D. Pembrook, Aeronutronic Ford Corporation Newport Beach, CA

A portable instrument has been designed and two units have been built to monitor the concentration of CO in ambient air. The air flows through a sampling section that is approximately 43 cm long with a 28-pass optical system that produces a total path of 12 meters. Gas-filter correlation methods are employed for the detection and discrimination against other gas species in the air. An H_2O monitor built into the main instrument measures the concentration of H_2O and automatically accounts for a small amount of interference by this gas. Interference by all other atmospheric gases is negligible. The minimum detectable concentration of CO is less than 0.02 ppm. The instrument is powered either by batteries or by a battery pack. EPA CONTACT: McClenny, W. A. 8-629-2208

600/2-76-211 **PE 1AA010** **CONTRACT NO. 68-02-2220**

Construction of a Prototype Sulfuric Acid Mist Monitor BY W. S. Eaton, and D. L. Strehler, Rockwell International Corporation Newbury Park, CA

A prototype sulfuric acid mist monitor has been constructed for the purpose of detecting sulfuric acid-sulfur trioxide. The monitor utilized the selective condensation method with subsequent determination of sulfuric acid by measuring the conductivity of an aqueous isopropanol solution. The instrument is fully automated with a mass flow controller and standard TTL logic to allow for easy modification of the timing circuit. After collection of the H_2SO_4-SO_3 in the temperature controlled spiral condenser, the sample is washed into a conductivity cell for measurement. During conductivity measurement the condensor is rinsed with methanol and air dried prior to the next sample collection. The instrument was designed to measure from 1 to 100 mg/m^3 H_2SO_4 and present the measurement within a 10 mv range. The sample timing cycle can be varied from 105 seconds to 999 seconds. EPA CONTACT: Cheney, J. L. 8-629-2892

600/2-76-212 **PE 1AB013** **ROAP/TASK 21 BBZ 029** **CONTRACT NO. 68-02-1325**

Symposium on Environment and Energy Conservation (November 1975, Denver, Colorado) BY F. A. Ayer, Research Triangle Institute Research Triangle Park, NC

The principal objective of this symposium was to identify the environmental benefits and threats of alternative energy conservation systems and to compare the environmental impacts of energy conservation strategies. It was also an objective of the symposium to anticipate and publicize environmental impacts so as to: facilitate proper consideration of these impacts in the assignment of funding priorities for energy conservation programs under the national energy research and development program; and begin work in a timely manner to solve future environmental problems. EPA CONTACT: Steen, W. B. 8-629-2825

600/2-76-214 **PE 1BB610** **IN-HOUSE PROJECT**

Workshop on In-Plant Waste Reduction in the Meat Industry BY J. L. Witherow, and J. F. Scaief, Industrial Environmental Research Laboratory, EPA Corvallis, OR

Presented are the proceedings of a workshop on in-plant waste reduction in the meat industry. Forty-five participants from industry, government, and private firms exchanged ideas and experiences on waste reduction during the two-day session. Topics covered were: pens, blood conservation and processing, paunch and viscera handling, rendering and plant clean-up operations. Case histories are presented on water conservation in a meat packing plant and in a hog processing plant.

600/2-76-215 **PE 1BB041** **GRANT NO. 803992**

Oil Spill and Oil Pollution Reports, February 1976 – April 1976 BY P. Melvin, and R. M. Ross, California, University of, Marine Science Institute Santa Barbara, CA

The February 1976 – April 1976 Oil Spill and Oil Pollution Reports is the seventh quarterly compilation of oil spill events and oil pollution report summaries. Presented in the report are: (a) summaries of oil spill events; (b) summaries and bibliographic literature citations; (c) summaries of current research projects; and (d) patent summaries. EPA CONTACT: Dorrler, S. 8-342-7508

NEW REPORT ABSTRACTS SECTION

600/2-76-217a **PE 1BC611** **GRANT NO. 11024 DQU**

Urban Runoff Characteristics – Volume I. Analytical Studies BY H. C. Preul, and C. N. Papdakis, Cincinnati, University of Cincinnati, OH

This is a report on analytical studies and field investigations for the characterization of urban runoff and combined sewer overflows. The report is divided into two volumes as follows: Volume I – Analytical Studies and Volume II – Field Investigations. Volume I deals mainly with the analysis and development of stormwater management models. Initially, the results of studies are given on the development of storm hyetographs and the determination of infiltration capacity curves for use in hydrologic runoff models. In the next sections, an hydrologic model known as "the University of Cincinnati Urban Runoff Model" is developed and a general description is given of the EPA Storm Water Management Model. Results are then provided on the testing of these computer models using field data included in Volume II. Volume II is a compilation of hydrologic and water quality data collected over a three year period from a typical combined sewer watershed of 2380 acres area in Cincinnati, Ohio. EPA CONTACT: Tafuri, A. N. 8-342-3512

600/2-76-217b **PE 1BC611** **GRANT NO. 11024 DQU**

Urban Runoff Characteristics: Volume II – Field Investigations BY H. C. Preul, and C. N. Papadakis, Cincinnati, University of Cincinnati, OH

This is a report on analytical studies and field investigations for the characterization of urban runoff and combined sewer overflows. The report is divided into two volumes as follows: Volume I – Analytical Studies and Volume II – Field Investigations. Volume I deals mainly with the analysis and development of stormwater management models. Initially, the results of studies are given on the development of storm hyetographs and the determination of infiltration capacity curves for use in hydrologic runoff models. In the next sections, an hydrologic model known as "the University of Cincinnati Urban Runoff Model" is developed and a general description is given of the EPA Storm Water Management Model. Results are then provided on the testing of these computer models using field data included in Volume II. Volume II is a compilation of hydrologic and water quality data collected over a three year period from a typical combined sewer watershed of 2380 acres area in Cincinnati, Ohio. EPA CONTACT: Tafuri, A. N. 8-342-3512

600/2-76-218 **PE 1BC611** **GRANT NO. Y005141**

Development and Application of a Simplified Stormwater Management Model BY J. A. Lager, T. Didriksson, and G. B. Otte, Metcalf and Eddy, Inc. Palo Alto, CA

A simplified stormwater management model has been created to provide an inexpensive, flexible tool for planning and preliminary sizing of stormwater facilities. The model delineates a methodology to be used in the management of stormwater and consists of a series of interrelated tasks that combine small computer programs and hand computations. The model successfully introduces time and probability into stormwater analysis, promotes total system consciousness on the part of the user, and assists in establishing size-effectiveness relationships for facilities. Throughout the report, data from the City of Rochester, New York, is presented and analyzed as a working example. EPA CONTACT: Tafuri, A. 8-342-3512

600/2-76-221 **PE 1BB610** **GRANT NO. 803119**

Removal of Soluble BODs in Primary Clarifiers BY G. A. Dubey, A. J. Wiley, and J. W. Collins, Institute of Paper Chemistry Appleton, WI

This project was directed to evaluating means for increasing BOD removal from primary treatment systems treating pulp and paper wastes. An improved understanding of the optimal conditions for soluble and colloidal BOD removal should permit increasing efficiency in total organic removal. The initial phase surveyed 12 mills to obtain data on total and soluble BODs, COD, suspended solids and color removal from sedimentation systems. This data was used to select mill effluents for additional study. These laboratory studies showed that, with proper flocculating agents, soluble BOD removal could be markedly increased. Soluble BOD was defined as that organic load passing through a 0.45 micrometer filter. Measurement of sludge volumes and sludge dewatering characteristics produced from use of iron salts, alum and polymers was outside the objective of the study. Gel chromatography studies showed that low molecular weight biodegradable residues and colloidal materials were flocculated and removed. Studies with model compounds indicated that increased removal is apparently related to pH of the solution and to functional groups, chain length, branching and solubility of the compound. Chemical costs may range from 3¢ to 10¢ per 1000 gallons. Cost reduction and improved clarifier performance can be achieved by elimination of overflows and spills within the mill that are antagonistic to efficient sedimentation due to dispersant action. EPA CONTACT: Scott, R. H.

NEW REPORT ABSTRACTS SECTION

600/2-76-225 PE 1AB013 GRANT NO. 801078

Fluidized Vortex Incineration of Waste BY J. P. Holman, and R. A. Razgaitis, Southern Methodist University Dallas, TX

The report gives results of an experimental investigation of an incineration concept utilizing fluidized wastes in a confined vortex flow with simultaneous heat recovery. The incinerator consisted of a vortex combustion chamber and a cooled vertical furnace column 5 feet long and half a foot in diameter. (No transition section was used.) The vortex incinerator was operated using propane, sawdust/propane, and sawdust. The principal experiments were performed using propane at air/fuel ratios and total mass flow rates (in lbs per hour) in three combinations: 15 and 125, 20 and 220, and 20 and 280. Radial temperature profiles and heat transfer to the wall of the vortex tube were measured as a function of air/fuel ratio, vertical position, total gas flow rate, and inlet/outlet configurations. Tube entrance temperature profiles demonstrated a peak of approximately 1800 F at a radius ratio of 0.5; at the tube exit, the maximum temperature shifted to the centerline and decreased to less than 1000 F. Total energy recovery rates varied from 84,000 to 152,000 Btu/hr and energy recovery efficiencies varied from 54 to 70%. Maximum energy fluxes experienced were on the order of 37,000 Btu/hr-sq ft. A helicoidal flow-model correlation was developed which was about 4 times that predicted for the Colburn j-Factor using the Reynolds analogy for fluid friction for turbulent flow past a flat plate. EPA CONTACT: Kilgroe, J. D. 8-629-2851

600/2-76-229 PE 1BC611 CONTRACT NO. 68-03-0094

Survey of User Acceptance of the Solid Waste Removal Systems at Operation Breakthrough Sites BY M. V. Bloom, and W. D. Quarles, Applied Management Sciences Silver Spring, MD

This report presents case studies of the solid waste disposal characteristics and resident attitudes about solid waste disposal methods at eight Operation Breakthrough sites. The data included in the report were obtained through on-site interviews of 1023 households and eight representatives of site management. The survey was conducted during the period of January through March 31, 1975. The report includes resident and management perceptions of the adequacy of trash storage and collection facilities and services, waste storage requirements and practices, and of the suitabilty of the system to the environment. The data do not constitute a technical evaluation of the solid waste management system at each facility and no on-site inspections of facilities were conducted to verify conditions reported by the residents. The findings do, however, represent user perceptions of the effectiveness of alternative methods of trash collection as those methods relate to different housing settings. EPA CONTACT: Olexsey, R. A.

600/2-76-246 PE 1AB015 ROAP/TASK 21 AUY 095 CONTRACT NO. 68-02-2110

Symposium on Fugitive Emissions Measurement and Control (May 1976, Hartford, CT) BY E. M. Helming, Research Corporation of New England Wethersfield, CT

The proceedings are a compilation of technical papers presented at a symposium on the measurement and control of fugitive emissions (or non-point sources). They discuss techniques which have been used to measure fugitive emissions, as well as systems which have been used to control the emissions. EPA CONTACT: Statnick, R. M. 8-629-2557

600/2-76-247a PE 1AB014 CONTRACT NO. 68-02-1873

Influence of Aerodynamic Phenomena on Pollutant Formation in Combustion (Phase I. Gaseous Fuels) BY L. J. Spadaccini, F. K. Owen, and C. T. Bowman, United Technology Research Center East Hartford, CT

The report gives results of an experimental investigation of the effects of the interaction between fluid dynamics and chemistry on pollutant formation and destruction in a natural-gas-fired, turbulent diffusion flame burner. The investigation determined the effects of inlet air swirl, combustor pressure, and air/fuel velocity ratio on the time-mean and fluctuating flow field, using probing and optical techniques. Changes in flow field structure were correlated with changes in pollutant emissions from the furnace. The investigation also showed that varying these parameters produces major changes in the time-mean flow field within the burner which significantly influence pollutant formation. It was also discovered that there are substantial large-scale contributions to the total rms turbulent velocity field. These large scale fluctuations result in significant departures from Guassian turbulence and isotopy in the initial mixing regions of the burner and have pronounced effects on mixing, chemical reaction, and pollutant formation. EPA CONTACT: Lanier, W. S. 8-629-2432

NEW REPORT ABSTRACTS SECTION

600/2–76–248 PE 1AB013 ROAP/TASK 21 ADD BE CONTRACT NO. 68–02–1359

Chemically Active Fluid-Bed Process for Sulphur Removal During Gasification of Heavy Fuel Oil – Third Phase BY J. W. T. Craig, G. L. Johnes, Z. Kowszun, D. Lyon, L. S. Malkin, G. Moss, O. R. Priestnall, and D. E. Tisdall, Esso Research Centre Abingdon, Oxfordshire, England, FC

The report describes the third phase of studies on the CAFB process for desulfurization/gasification of heavy fuel oil in a bed of hot lime. Major conclusions relating to process performance and operability are: (1) water, either in the fuel or in the fluidizing air, has a strongly adverse effect on desulfurizing efficiency; (2) good desulfurizing efficiencies are obtainable at very low stone replacement rates; (3) process performance can be expressed as a statistically derived equation; (4) a burnback burner is feasible for coke removal; (5) SO_2/stone disposal by sulfation is not feasible, but dead-burning looks promising; and (6) most trace elements are retained in the bed. Among tasks included in this phase were: (1) batch reactor evaluation of three limestones and gasification/desulfurization of a vacuum bottoms fuel; (2) two pilot plant runs using deep beds and demonstrating improved operational techniques; (3) development of a statistical method for analyzing results of the two pilot plant test runs and reconciling them with earlier results; (4) sulfation of bed material as a means of disposing of SO_2 and spent lime; (5) dead-burning as a means of treating spent bed material prior to disposal; (6) retention of the bed material of a wide range of trace elements contained in the fuel; and (7) demonstration of a burn-back burner to overcome coke lay-down in cyclone inlets. EPA CONTACT: Rakes, S. L. 8–629–2825

600/2-76–249a PE 1AB012 ROAP/TASK 21 ADL 043 CONTRACT NO. 68–02–1345

Charged Droplet Scrubber for Fine Particle Control: Laboratory Study BY C. W. Lear, TRW Systems Group Redondo Beach, CA

The report gives results of a feasibility study of the application of charged droplet scrubbing for fine particle control. Results, using the TRW charged droplet scrubber, indicated that the method is feasible and applicable over a wide range of conditions. In the charged droplet scrubber the electrical interaction mechanisms exist in addition to the normal impact and diffusional scrubbing mechanisms. Electrical interaction is strong in the 0.1 to 1.0 micron particulate size range where the normal mechanisms lack effectiveness. Collection efficiencies as high as 80% for 0.1 micron and 90% for 1 micron particles were demonstrated in a three-stage unit. Induced charging or dry charging of particulate by charge transfer from droplets is an effective and major collection mechanism in the fine particulate size range. Large (100 micron) droplets give better performance characteristics than small (10 micron) droplets. EPA CONTACT: Harmon, D. L. 8–629–2925

600/2–76–249b PE 1AB013 ROAP/TASK 21 ADL 043 CONTRACT NO. 68–02–1345

Charged Droplet Scrubber for Fine Particle Control: Pilot Demonstration BY W. F. Krieve, and J. M. Bell, TRW Systems Group Redondo Beach, CA

The report gives results of a successful Charged Droplet Scrubber (CDS) pilot demonstration of coke oven emissions control. It also describes the design, installation, and checkout of the demonstration system. The CDS uses electrically sprayed water droplets, accelerated through an electric field, to remove particulate material from a gas stream. The pilot demonstration was a continuation of laboratory and bench scale studies for application of the CDS to fine particle control. The pilot demonstration included, in addition to the CDS, the ducting, flow transitions, and blower necessary to circulate process gas through the CDS. The test was performed at the Kaiser Steel Company coke oven facility, Fontana, California. A large fraction of the coke oven emissions were submicron and composed of carbon particles and hydrocarbon aerosol. After the system checkout was completed, during which CDS operating parameters were established, the demonstration test series was performed. Results of the demonstration test indicate that the CDS is an effective pollution control device for controlling coke oven stack emissions. EPA CONTACT: Harmon, D. L. 8–629–2925

600/2–76–256 PE 1AB014 ROAP/TASK 21 BCC 058 CONTRACT NO. 68–02–1888

Commercial Feasibility of an Optimum Residential Oil Burner Head BY L. P. Combs, and A. S. Okuda, Rockwell International Corporation Canoga Park, CA

The report gives results of a study of the feasibility of commercializing optimum oil burner head technology developed earlier for EPA. The study included: selecting the best commercial method for fabricating optimum heads; determining that prototype simulated-production heads could reproduce an earlier research head's beneficial results; and testing prototype heads of retrofit devices in two commercial residential furnaces. Sheetmetal stamping was selected as the best fabrication method. A one-piece stamped and folded design was evolved and prototype commerical heads were fabricated. Research combustion chamber tests showed these to be equivalent to the earlier research head. Tested as retrofit replacements for stock burner heads in two new warm-air oil furnaces, the prototype heads were found to be operationally satisfactory and potentially durable and long-lived. It was estimated that widespread retroffiting of old residential units could increase mean season-averaged thermal efficiency (averaged over those units retrofitted) by about 5% and simultaneously reduce NO_x emissions from these sources by about 20%. Logistics of a retrofit program, training for service personnel, and requirements to ensure meeting codes and standards were not resolved. EPA CONTACT: Martin, G. B. 8–629–2235

NEW REPORT ABSTRACTS SECTION

600/2-76-257 PE 1AB012 ROAP/TASK 21 ADL 029 CONTRACT NO. 68-02-1324

Particle Emission Reactivity BY K. P. Ananth, J. B. Galeski, and F. I. Honea, Midwest Research Institute Kansas City, MO

The report gives results of an extensive review and analysis of the literature aimed at: studying historical trends of particulate, SO$_x$, and NO$_x$ emissions and of acid rain in the northeastern U.S.; studying size and composition of particulates from power plants; and analyzing interactions between particulates and sulfur-bearing gases from coal-fired power plants. Particulate mass emissions from industrial and combustion sources project a rising trend, nationwide, if no additional controls are assumed. (With application of best controls, the trend projection is reversed). SO$_2$ emissions have been increasing nationwide since 1950; without additional controls and with a 5% industry growth, this trend is expected to continue. (If new source performance standards and state implementation plans become effective in 1978, SO$_2$ emissions are expected to decrease.) NO$_x$ mass emissions have increased consistently since 1920; those for 1970 were more than 3 times those for 1920. The limited data available for ambient NO$_x$ levels is further complicated by inherent limitations of measurement techniques used to obtain the data. Information on acid rain in northeastern U.S. is extremely scarce. Available data indicates that precipitation in this region has become increasingly acidic over the years. A better assessment of the trend can be made only when better rainwater pH information becomes available. EPA CONTACT: Drehmel, D. C. 8-629-2925

600/2-76-258 PE 1AB013 ROAP/TASK 21 ADD 024 CONTRACT NO. 68-02-1307

Fate of Trace and Minor Constitutents of Coal During Gasification BY A. Attari, M. Mensinger, and J. Pau, Institute of Gas Technology Chicago, IL

This report gives results of a study of the fate of selected minor and trace elements of Montana lignite and Illinois No. 6 bituminous coals during development of the HYGAS process. Solid residue samples from various development stages were analyzed. The data indicate that certain volatile trace elements are removed from the coal during gasification. Removed from the solids during processing were such elements as antimony, arsenic, bismuth, cadmium, chlorine, fluorine, mercury, lead, selenium, and tellurium. It is estimated that, in a full scale operation, these will appear in the quench water system. EPA CONTACT: Rhodes, W. J. 8-629-2851

600/2-76-259 PE 1AB013 ROAP/TASK 21 ADD 024 CONTRACT NO. 68-02-1307

Initial Environmental Test Plan for Source Assessment of Coal Gasification BY A. Attari, M. Mensinger, and J. Pau, Institute of Gas Technology Chicago, IL

The report describes an initial source assessment environmental test plan, developed to investigate the fate of various constituents during coal gasification. The plan is an approach to the problems associated with sampling point selection, sample collection, and sample analysis which is based on a HYGAS-type process. The report includes a general process description, process steps, effects of operating conditions, sampling, analytical methods, and significance of results. In order to be implemented, this environmental test plan would have to be integrated into the operating program of a specific facility. Although this integration has not taken place, it would be a next step toward data acquisition. EPA CONTACT: Rhodes, W. J. 8-629-2851

600/2-76-265 PE 1AD605 IAG NO. IAG-D6-F344

Valence States of Sulfur in Pollution Samples by X-Ray Analysis BY J. V. Gilfrich, M. C. Peckerar, and L. S. Birks, Naval Research Laboratory Washington, DC

A flat single crystal spectrometer was configured to measure the valence band x-ray spectra of various forms of sulfur. While most different valence states showed differences in the structure of the K_β band, particular emphasis was placed on distinguishing sulfide from sulfate in samples simulating pollution particulate collections. The relative fraction of sulfide and sulfate in samples containing as low as 25 micrometers/centimeter^2 total sulfur can be measured with an accuracy of about 10%. EPA CONTACT: Wagman, J. 8-629-2216

600/3-76-030b PE 1AA008 CONTRACT NO. 68-02-0799

Fate of Nitrogen Oxides in the Atmosphere: Appendices BY C. W. Spicer, Battelle Columbus Laboratories Columbus, OH

A field study was conducted to determine the distribution and ultimate fate of nitrogen oxides in the atmosphere. Researchers sampled and monitored the air for five weeks in St. Louis, Missouri, and for five weeks in West Covina, California. Also measured were meteorological parameters—wind direction and speed, temperature, relative humidity, and solar intensity. On the basis of the monitoring data, the chemical analyses of collected samples, and NO$_x$ loss-calculations, the results of the study indicate that nitrogen oxides are removed slowly from the atmosphere. This was true at both locations. EPA CONTACT: Bufalini, J. J. 8-629-2422

NEW REPORT ABSTRACTS SECTION

600/3–76–060 **PE 1BA023** **GRANT NO. 800510**

Fate and Biological Effects of Mercury Introduced into Artificial Streams BY H. J. Kania, R. L. Knight, and R. J. Beyers, Georgia, University of, Institute of Ecology Athens, GA

Mercuric ion was continuously input to artificial stream channels to provide water concentrations of 0.01, 1.0, and 5.0 micrograms/l. Channel components were periodically sampled for total mercury analyses. The effects of mercury on the algal components of the periphyton communities and on the benthic insects were determined. The sampling program continued one full year after mercury inputs were stopped. Approximately 15% of the added mercury was removed from the water. The community components acquired very high concentrations of mercury, although in most cases the levels in these were not a linear function of the water levels. Concentrations in invertebrates decreased most rapidly after mercury inputs were stopped while the sediment levels decreased most slowly. Periphytic algae showed several treatment responses including total inhibition, inhibition of certain life stages, possible stimulation of certain life stages and morphological alterations. One species was found only in the treated channels and disappeared when mercury inputs were stopped. The diversity and evenness of benthic insect communities were affected by mercury treatment. EPA CONTACT: Holm, H. W. 8–289–3468

600/3–76–061a **PE 1BA608** **GRANT NO. 800940**

Standard Test Fish Development, Part I BY I. R. Adelman, and L. L. Smith Jr., Minnesota, University of St. Paul, MN

Fathead minnows and goldfish were compared for their suitability as a standard bioassay fish. Acute bioassays of four potential reference toxicants, sodium chloride, pentachlorophenol, hexavalent chromium, and Guthion-R, were conducted with both species, and results were reported as toxicity curves as well as LC50's at various times. Both species showed the same variability of bioassay results. Since goldfish could not complete a life cycle in 1 year under laboratory conditions, fathead minnows were recommended as a standard species on the basis of their smaller size and their utility in complete life cycle tests. Bioassays of pentachlorophenol were conducted with both species to determine the effect of testing different sized fish of the same age or testing different aged fish. Size selection of fish within the ranges tested is unnecessary since differences in LC50's were small. Since age of fathead minnows did not affect the LC50's after 24 hours, use of younger fish would allow smaller bioassay chambers or more fish per chamber. On the basis of seven criteria, sodium chloride was superior for use as a reference toxicant with pentachlorophenol a close second choice. EPA CONTACT: Andrew, R. W.

600/3–76–061b **PE 1BA608** **GRANT NO. 800940**

Standard Test Fish Development, Part II BY I. R. Adelman, and L. L. Smith Jr., Minnesota, University of St. Paul, MN

Three chronic bioassays of Guthion-R were conducted with fathead minnows. All tests were begun with eggs, and the longest lasted 20 days after termination of spawning, a total of 250 days. Parameters measured were survival, growth, fecundity, and growth and survival of second generation fry and eggs. The most sensitive criteria for effect of the toxicant was fecundity. The maximum acceptable toxicant concentration was between 0.33 and 0.51 micrograms/liter Guthion-R and the application factor between .00017 and .00027. EPA CONTACT: Andrew, R. W.

600/3–76–065 **PE 1BA608** **GRANT NO. 800610**

Mathematical Modeling of Phytoplankton in Lake Ontario: Part II – Simulations Using Lake 1 Model BY R. V. Thomann, R. P. Winfield, D. M. DeToro, and D. J. O'Connor, Manhattan College Bronx, NY

The results of a series of simulations of the response of the open lake region of Lake Ontario to various levels of nutrient input are described. The simulations use a simplified dynamic model of phytoplankton – nutrient interactions in a vertically segmented structure. The analysis of long term simulations (10–20 years) indicates that the overall loss rates of nutrient are of particular importance. Under reasonable set of model parameters, the simulations indicate that the present observed open lake phytoplankton biomass of Lake Ontario does not appear to be in equilibrium with the present input nutrient load. Therefore, if the present load is continued, it is estimated that spring peak phytoplankton chlorophyll in the epilimnion will continue to increase to a new level about 45% higher than present levels. The interaction of nitrogen and phosphorus is also described by the simulations and the results indicate a tendency for nitrogen limitation to be an increasing dominant factor in controlling the spring bloom. An estimated "pastoral" load simulation, indicative of conditions prior to man's intensive activity, indicates that spring phytoplankton levels were some 40% less than present levels and average annual epilimnion biomass under equilibrium with present loads is about twice that under pastoral conditions. EPA CONTACT: Richardson, W.

NEW REPORT ABSTRACTS SECTION

600/3-76-066 PE 1BA609 CONTRACT NO. 68-01-0721

Simulation of Pesticide Movement on Small Agricultural Watershed BY R. T. Adams, and F. M. Kurisu, ESL, Inc. Sunnyvale, CA

Simulation of Contaminant Reactions and Movement (SCRAM) is a computer simulation designed to predict the movement of pesticides from agricultural lands. SCRAM is composed of deterministic submodels which describe the following physical processes: infiltration, percolation, evaporation, runoff, sediment loss, pesticide adsorption and desorption in the soil profile, pesticide microbial degradation in the soil profile, and pesticide volatilization. SCRAM predictions of these physical processes are compared to experimental data furnished by the Southeast Environmental Research Laboratory in cooperation with the Southern Piedmont Conservation Research Center. Simulated runoff for two small watersheds (less than 3 hectares) near Athens, Georgia, agrees reasonably well with experimental data. Sediment loss is not as accurately predicted. Predictions of pesticide loss in the runoff and on the sediment are in reasonable agreement with experimental data if allowance is made for the effects of inaccurately predicting sediment loss. Simulated pesticide movement in the soil profile differs from experimental measurements at the surface and below 10 cm. Simulated degradation rates are below measured rates early in the season but are in closer agreement by the end of the season. Volatilization losses for a single pesticide agree qualitatively with measured values. The evapotranspiration model was not evaluated directly. EPA CONTACT: Bailey, G. W.

600/3-76-067 PE 1BA609 IN-HOUSE PROJECT

Chemical and Photochemical Transformations of Selected Pesticides in Aquatic Systems BY N. L. Wolfe, R. G. Zepp, G. L. Baughman, R. C. Fincher, and J. A. Gordon, Environmental Research Laboratory, EPA Athens, GA

This report presents the results of laboratory studies to quantitatively predict chemical and photochemical transformation rates and products of pesticides in water. It includes a general discussion of relevant transformation processes and associated kinetic expressions. The processes treated in most detail are hydrolysis, direct photolysis, and reaction with singlet oxygen. Implications of other processes such as oxidation and sensitized photolysis are also discussed. Results of detailed studies are included for the pesticides, malathion, carbaryl, methoxychlor, captan, and 2,4-D esters. The measured rate constants and half-lives indicate that chemical and/or photochemical processes of these compounds are likely to be important in the aquatic environment. Less extensive data are presented for the pesticides, atrazine, diazinon, parathion, and toxaphene, along with a discussion of available literature data. EPA CONTACT: Enos, H. F.

600/3-76-071a PE 1DB314 CONTRACT NO. 68-03-0261

Forecasting the Composition and Weight of Household Solid Wastes Using Input-Output Techniques. Volume I BY S. B. Noble, C. C. Humpstone, and E. H. Ayres, International Research and Technology Corporation Arlington, VA

An input-output approach is employed to project future production inputs for selected industrial sectors. Extrapolations are made for subsequent household solid waste composition and quantities. Considerable effort is directed at developing a highly detailed analysis of the material flows which define the interdependencies of producing and consuming sectors in the economy. Using the INFORUM model, projections of selected industry sector productivities and subsequent household waste generation were made, taking into account the expected changes in consumer expenditure patterns and input coefficients between 1971 and 1985. The 14 identified categories of personal consumer expenditures with significant projected increases were mostly metallic durables. Thus, the proportion of metals in the future household waste stream is expected to increase. The 1985 household stream is expected to continue to have a high proportion of waste related to paper and paperboard mill products, followed by ferrous waste resulting from steel production activity, with discarded glass comprising the third largest waste component. The projections of future production and consumption activities provide indications of the recyclable materials that can be expected in the future household waste stream. EPA CONTACT: Talley, R. J.

600/3-76-071b PE 1DB314 CONTRACT NO. 68-03-0261

Forcasting the Composition and Weight of Household Solid Wastes Using Input-Output Techniques. Volume II BY S. B. Noble, C. C. Humpstone, and E. H. Ayres, International Research and Technology Corporation Arlington, VA

An input-output approach is employed to project future production inputs for selected industrial sectors. Extrapolations are made for subsequent household solid waste composition and quantities. Considerable effort is directed at developing a highly detailed analysis of the material flows which define the interdependencies of producing and consuming sectors in the economy. Using the INFORUM model, projections of selected industry sector productivities and subsequent household waste generation were made, taking into account the expected changes in consumer expenditure patterns and input coefficients between 1971 and 1985. The 14 identified categories of personal consumer expenditures with significant projected increases were mostly metallic durables. Thus, the proportion of metals in the future household waste stream is expected to increase. The 1985 household stream is expected to continue to have a high proportion of waste related to paper and paperboard mill products, followed by ferrous waste resulting from steel production activity, with discarded glass comprising the third largest waste component. The projections of future production and consumption activities provide indications of the recyclable materials that can be expected in the future household waste stream. EPA CONTACT: Talley, R. J.

NEW REPORT ABSTRACTS SECTION

600/3-76-074 **PE 1DB314** **GRANT NO. 802679-01**

Growth Responses of Chicks Fed Microbial Protein Produced from Organic Wastes BY O. L. Adams, and E. J. Thornton, Tennessee State University Nashville, TN

The objective of this study was to investigate the use of microbial protein produced from organic wastes as a source of protein in chick starting rations. Microbial protein recovered from the mold mycelia was produced when potato waste materials were homogenized and added to a mineral salt containing a culture medium suitable for the action of a strain of *Aspergillus niger*. The new product containing approximately 29.0 percent protein was added to chick starting rations, replacing the soybean protein. Sixty-two percent (62%) of the protein in the ration were supplied by soybean meal. The length of the feeding trial was four (4) weeks. Results of the feeding trials showed that fungal protein was effective in supporting body maintenance but was ineffective in stimulating growth. Palatability of rations and poor feed consumption were factors contributing to slow growth. However, feed utilization was less of a problem as shown by nitrogen retention trials. EPA CONTACT: Rogers, C. J.

600/3-76-075 **PE 1EA077** **GRANT NO. 803186**

Ecological Impact of Synthetic Organic Compounds (SOC's) on Estuarine Ecosystems BY J. L. Lincer, M. E. Haynes, and M. L. Klein, Mote Marine Laboratory Sarasota, FL

This review and indexed bibliography concerns the presence and effects of pesticides (i.e., insecticides, herbicides, fungicides, etc.) and industrial toxicants in the estuarine ecosystem. The industrial toxicants refer, primarily, to polychlorinated biphenyls, but phthalate esters, polychlorinated terphenyls, chlorinated dibenzodioxins and dibenzofurans are also discussed. The review covers literature of the last decade, with emphasis on the most recent 5 years. However, the 700-plus references in the bibliography span a much wider range. A permuted keyword retrieval syst[illegible]SPINDEX) is provided to allow practical use of the bibliography by scientists, academicians, and societal decision makers. EPA CONTACT: Herndon, [illegible]A.

600/3-76-076 **PE 1BA608** **IAG NO. IAG-0153D**

Analysis and GC-MS Characterization of Toxaphene in Fish and Water BY D. L. Stalling, and J. N. Huckins, U.S. Fish and Wildlife Service Columbia, MO

Sensitive methods for the detection and identification of toxaphene in water and fish were described. Polyurethane foam, gel permeation and silicic acid chromatography were utilized to permit accurate quantitation of multicomponent toxaphene residues. A method for characterization of changes in isomer composition of toxaphene residues in fish was reported. The chemical composition of toxaphene was examined by electron impact and chemical ionization mass spectrometry. Chemical ionization gas chromatography-mass spectrometry was particularly applicable to the analysis and confirmation of toxaphene in residues in environmental samples. EPA CONTACT: Mueller, L. H. 8-783-9529

600/3-76-078 **PE 1AA602** **IN-HOUSE PROJECT**

Ecological Effects of Aerosol Drift from a Saltwater Cooling System BY I. J. Hindawi, L. C. Raniere, and J. A. Rea, Environmental Research Laboratory, EPA Corvallis, OR

The local terrestrial effects of salt aerosol drift from powered spray modules and a mechanical draft cooling tower at Turkey Point, Florida were evaluated through field and controlled exposure studies. Indigenous vegetation, soil and fresh water were sampled over a year long period to acquire pre-activation baseline data and to provide for the assessment of possible environmental impact of salt aerosol loading from the test cooling devices. No measurable effects attributable to salt aerosol emissions from test cooling devices were detected on indigenous plants, soil, or fresh water sampled during or following operation of the test cooling tower/spray modules. The introduced cultivar plants showed visible foliar injury and elevated salt concentrations, correlated to the combined influences of cooling device and east wind drift exposure, only at the exposure site closest (215M) to the cooling tower/spray modules. Full-term effects and salt aerosol tolerance levels of a cultivar plant, bush bean, were examined by controlled exposure to a simulated sea-salt aerosol at concentrations representative of the Turkey Point test site. The trace injury threshold of the bush bean trifoliate leaf was at a salt aerosol concentration of 5 micrograms/m^3 for 100 hours cumulative exposure over a four week period, while pod productivity was reduced at salt aerosol concentrations of 25 micrograms/m^3 and 75 micrograms/m^3 at the environmental conditions of the exposure study. EPA CONTACT: Randolph, K. 8-420-4791

600/3-76-079 **PE 1BA608** **IN-HOUSE PROJECT**

Water Quality Criteria Research of the U.S. Environmental Protection Agency—Proceedings of an EPA-sponsored Symposium on Marine, Estuarine and Freshwater Quality Environmental Research Laboratory, EPA Corvallis, OR

These proceedings include a cross-sectional representation of the broad base ecological effects research programs conducted by research laboratories of the EPA Office of Health and Ecological Effects. The presentations focus on microbial and abiotic degradation processes, the problem of trace metals, the effects of toxic organics, and feasibility of new stress-measuring methodologies in the marine environment. The freshwater segment of the symposium addresses the transport and biological modeling capabilities of the laboratories, cold climate aquatic biology, lake trophic states in the eastern United States, and the impact of toxic substances on freshwater systems. EPA CONTACT: Randolph, K. 8-420-4791

NEW REPORT ABSTRACTS SECTION

600/3–76–080 PE 1AA008 CONTRACT NO. 68–02-1718

Smog Chamber Studies on Photochemical Aerosol-Precursor Relationships D. R. Miller, and D. W. Joseph, Battelle Columbus Laboratories Columbus, OH

An experimental program was conducted in which controlled atmospheres containing water vapor, CO, NO_x ($NO + NO_2$), and a constant distribution of 17 hydrocarbons (NMHC) were irradiated in a smog chamber. Reaction profiles were developed for NO oxidation, hydrocarbon oxidation, ozone formation, and aerosol formation over 10-hour irradiation periods. Comparison of the smog chamber results with data on hydrocarbon oxidation rates observed in the Los Angeles area and with worst-case ozone episodes in that area, suggest that the models (precursor relationships) developed (in this study) for photochemical aerosol formation are highly relevant to smog problems in polluted atmospheres. EPA CONTACT: Bufalini, M.

600/3–76–081 PE 1BA031 GRANT NO. 801387

Algal Metabolite Influence on Bloom Sequence in Eutrophied Freshwater Ponds BY K. I. Keating, Haskins Laboratories, Inc. New Haven, CT

I. Bloom sequence in Linsley Pond, Connecticut, was monitored for three years. Bloom dominant algae were isolated in culture, heat-labile, bio-active substances in cell-free filtrates of these cultures were tested against each of the dominants. Enhancing or neutral, effects on successors; and inhibiting, or neutral, effects on predecessors were consistently observed. Lake waters exhibited parallel effects. Additionally, inhibition patterns suited differences in year-to-year patterns of *in situ* blooms. This widespread correlation of *in situ* events with *in vitro* phenomena indicates that extracellular products of bloom dominant algae are significant in bloom sequence determination in eutrophied fresh waters. II. Spring diatom bloom density varied inversely with the preceding winter's blue-green population density. Diatom blooms, when they occurred, ended when available silica was depleted. Generalized *in situ* and *in vitro* inhibition of diatoms by bluegreens. After separation and concentration via ether extraction or ultrafiltration active substances were returned to growth media. Preliminary evidence suggests that inhibition involves interference with silica availability. III. The feasibility of biological programming of bloom sequence in eutrophied lakes is considered. EPA CONTACT: Maloney, T. E. 8–420–4606

600/3–76–082 PE 1AA602 IN-HOUSE PROJECT

Biotransformation and Chemical Form of Mercury in Plants BY D. D. Gay, Environmental Monitoring & Support Laboratory, EPA Las Vegas, NV

The *in vitro* methylation of inorganic mercury has been demonstrated using an acetone precipitated protein fraction from *Pisum sativum* and S-adenosylmethionine as the methyl-donating compound. A time course of the enzymatic formation of methylmercury has shown that the maximum methylmercury concentration occurred after 1 hour of incubation of the substances with the enzyme system. At all subsequent incubation times reduced concentrations of methylmercury in the reaction mixture were observed. When a time course for the *in vivo* methylation of inorganic mercury was done using an infiltration and incubation procedure, the maximum concentration of methylmercury was observed after 10 hours of incubation. All subsequent incubation periods produced lesser amounts of methylmercury. The results suggest that the methylmercury is an intermediate compound in the mercury pathway in peas (*Pisum sativum*). EPA CONTACT: Gay, D. D. 8–595–2969

600/3–76–083 PE 1BA023 GRANT NO. 803315–01–

Modeling Nonpoint Pollution from the Land Surface BY A. S. Donigan Jr., and N. H. Crawford, Hydrocomp, Inc. Palo Alto, CA

Development and initial testing of a mathematical model to continuously simulate pollutant contributions to stream channels from nonpoint sources is presented. The Nonpoint Source Pollutant Loading (NPS) Model is comprised of subprograms to represent the hydrologic response of a watershed, including snow accumulation and melt, and the processes of pollutant accumulation, generation, and washoff from the land surface. The simulation of nonpoint pollutants from both pervious and impervious areas is based on sediment as a pollutant indicator. The calculated sediment washoff is multiplied by user-specified "potency factors" that indicate the pollutant strength of the sediment for each pollutant simulated. Both urban and rural areas can be simulated. Initial testing of the NPS Model was performed on three urban watersheds in Durham, North Carolina; Madison, Wisconsin; and Seattle, Washington. The hydrologic simulation results were good while the simulation of nonpoint pollutants was fair to good. Sediment, BOD, and SS were the major pollutants investigated. A detailed user manual is provided to assist potential users in application of the NPS Model. Parameter definitions and guidelines for parameter evaluation and calibration are included. Possible uses of the NPS Model for evaluation of nonpoint pollution problems are discussed. EPA CONTACT: Mulkey, L. E. 8–289–3581

NEW REPORT ABSTRACTS SECTION

600/3-76-084 PE 1AA008 GRANT NO. 803075

Spectroscopic Studies of Photochemical Smog Formation and Trace Pollutant Detection BY J. G. Calvert, W. H. Chan, R. J. Nordstrom, and J. H. Shaw, Ohio State University Research Foundation Columbus, OH

An infrared Fourier transform spectrometer has been used with a long path length, multiple traversal cell to study the infrared spectra of atmospheric gases and several pollutant gases. Solar spectra have also been obtained between 3 and 20 micrometer wavelength. The kinetics of the formation and decay of nitrous acid have been followed by monitoring bands of nitric oxide, nitrogen dioxide, and both cis- and trans-nitrous acid. Rate constants and the equilibrium constant for the reactions have been derived. A mechanism accounting for the formation of nitrous acid in the atmosphere is proposed. These rate data have been used to speculate on the potential importance of nitrous acid formation in power plant and auto exhaust plumes. A new technique involving the use of infrared spectroscopy and two cells of unequal length to study a two-component system in equilibrium is described. A six-meter multiple traversal cell equipped with fluorescent tubes has been constructed. The cell irradiance closely simulates the solar irradiance at ground level in spectral distribution and intensity. EPA CONTACT: Spence, J. 8-629-2829

600/3-76-085 PE 1AA008 GRANT NO. 801174

Chemical Characterization of Model Aerosols BY W. E. Schwartz, G. D. Mendenhall, P. W. Jones, C. J. Riggle, A. P. Graffeo, and D. F. Miller, Battelle Columbus Laboratories Columbus, OH

Model aerosols were generated from the individual hydrocarbons, toluene and 1-heptene, by irradiation under simulated atmospheric conditions in the presence of NO_x, or NO_x/SO_2. The reactions were carried out in a 17.3 m^3 environmental chamber. The collected aerosols were subjected to analysis by mass spectrometry and chromatographic techniques, both with and without chemical derivatization. Polyfunctional oxidation products, including quinones and carboxylic acid, were tentatively identified in the toluene aerosol. The 1-heptene filtered aerosol was shown to contain condensation products from different 1-heptene molecules. Tentative identification of a number of vapor-phase species was accomplished in both systems. The health effects of the atmospheric oxidation products from hydrocarbons is discussed. EPA CONTACT: Patterson, R. K. 8-629-2253

600/3-76-086 PE 1BA608 GRANT NO. 800944-02-

Sediment Environment of Port Valdez, Alaska: The Effect of Oil on this Ecosystem BY H. M. Feder, L. M. Cheek, P. Flanagan, S. C. Jewett, M. H. Johnston, A. S. Naidu, S. A. Norrell, A. J. Paul, and A. Scarborough, Alaska, University of Fairbanks, AK

The Port Valdez intertidal sediment system was studied for three years. Physical, geological, geochemical, hydrocarbon, and biological features were examined. Sediments were poorly sorted gravels to plastic clays, and had low amounts of organic matter. Bacterial numbers varied from site to site, and decreased in numbers with depth. Meiofauna consisted primarily of nematodes and harpacticoid copepods. Most meiofaunal species were restricted to the upper three centimeters throughout the year. Meiofaunal densities were typically highest in summer and lowest in winter. Reproductive activities of copepods tended to be seasonal with only one species reproducing throughout the year. Bacterial populations were unaffected by single applications of up to 2000 ppm of Prudho Bay crude oil or by chronic applications. It is concluded that oil is removed rapidly by tidal action. Three species of copepods exposed to oil in the field significantly increased in density in experimentally oiled plots. Uptake and release of added oil by intertidal sediments and the clam *Macoma balthica* were examined in the field, Petroleum was not detectable two months after application to sediments. Penetration of oil into sediments to depths beyond one centimeter does not appear to be an important process. During the experimental period, a significant increase in mortality was noted for *M. balthica* exposed to oil. It is suggested that this widely distributed clam may be a valuable indicator for oil. EPA CONTACT: Lotspeich, F. P.

600/3-76-087 PE 1AA603 GRANT NO. DA-6-99-22

Environmental Aerosol Measurements Using an Airborne Particle Morphokinetometer BY W. M. Farmer, and J. O. Hornkohl, Spectron Development Laboratories, Inc. Tullahoma, TN

Measurements of ambient aerosols using an airborne particle morphokinetometer are described. The measurements were of large particles (greater than 5 micrometers in diameter) in environmental aerosols around Phoenix, Arizona, during November 1975. Speed of the sample space on the airborne platform and time resolved measurements of relative particle number density and particle size distributions for horizontal and vertical flight profiles were obtained. The results show that the large aerosol particles were predominantly 50-75 micrometers in size, that the relative number density could vary greatly in space and time, and that the largest concentration of particles were within 28 meters of ground level. EPA CONTACT: Durham, J. L. 8-629-2181

600/3-76-088 PE 1AA001 IN-HOUSE PROJECT

Continuous Measurement of Sulfur in Submicrometric Aerosols BY J. L. Durham, W. E. Wilson, and E. B. Bailey, Environmental Sciences Research Laboratory, EPA Research Triangle Park, NC

A method is described for measuring continuously the total sulfur in submicrometric aerosols suspended in air containing sulfur dioxide. The aerocolloid is passed through a tube coated internally with lead dioxide. The gaseous sulfur dioxide diffuses to the surface of the tube and reacts irreversibly to form lead sulfate. The aerosol is not significantly removed in the tube. The total sulfur in the aerosol is determined by a hydrogen-air flame photometric detector. A sulfur balance has been demonstrated for the sulfur dioxide-ozone olefine reaction system, which produces aerosols containing sulfur.

NEW REPORT ABSTRACTS SECTION

600/3–76–089 PE 1AA008 GRANT NO. 800655

Reaction Kinetics of Ozone with Sulfur Compounds BY R. E. Erickson, and L. M. Yates, Montana, University of Missoula, MT

The reaction between ozone, sulfur dioxide, dimethyl sulfide, methanethiol and dimethyl disulfide are reported. The rate of reaction between ozone and dissolved sulfur dioxide is strongly pH dependent. These results suggest that under some conditions atmospheric oxidation of sulfur dioxide may involve ozone. Dimethyl sulfide was found to react rapidly with ozone in the gas phase but reproducible kinetic data were not obtained. Stoichiometric and yield data from the reaction between ozone and methanethiol or dimethyl disulfide in aqueous solution indicate those reactions to be complex mechanistically, although one product, methane sulfonic acid is predominant. EPA CONTACT: Bufalini, J. J. 8–629–2422

600/3–76–090 PE 1AA008 CONTRACT NO. 68–02–1785

Sulfur Dioxide Photooxidation Rates and Aerosol Formation Mechanisms – A Smog Chamber Study BY W. C. Kochmond, and J. Y. Yang, Calspan Corporation Buffalo, NY

The objective of this investigation was to obtain smog chamber data pertaining to the oxidation of SO_2 into sulfate under simulated urban and rural atmospheric conditions. Tasks were performed on various systems ranging from HC + NO_x + SO_2 to the clean air + SO_2 mix. Emphasis has been placed on the rates of SO_2 photooxidation and on chemical characterization of aerosol products. Results showed the rate of SO_2 oxidation to vary from less than 1% per hour for the clean air + SO_2 system to about 2.7% per hour for the propylene + NO_x + SO_2 system. Results were also interpreted to suggest that the major SO_2 oxidation process is the reaction of SO_2 with OH radicals. Particulate matter, as occurred in natural rural air, appeared to have no appreciable effect upon SO_2 photooxidation; nevertheless questions still remain on the role of natural particulates. EPA CONTACT: Dimitriades, B. 8–629–2706

600/3–76–091 PE 1AA008 CONTRACT NO. 68–02–1735

Utility of Reactivity Criteria in Organic Emission Control Strategies – Application to the Los Angeles Atmosphere BY J. C. Trijonis, and K. W. Arledge, TRW Environmental Services Redondo Beach, CA

This report investigates the impact of reactivity criteria on organic emission control strategies in the Metropolitan Los Angeles Air Quality Control Region. The investigation involved assembling data on total organic emission rates, on organic emission composition, and on emission reactivity for the Los Angeles basin. On the basis of this data, calculations were then made of the degree to which each emission source type should be controlled to achieve the air quality standard for ozone/oxidant. Results were obtained and compared for the cases of indiscriminate control and of selective, reactivity-based control. EPA CONTACT: Dimitridades, B. 8–629–2706

600/3–76–092 PE 1BA608 IN-HOUSE PROJECT

Environmental Impacts of Advanced Wastewater Treatment at Ely, Minnesota BY H. Kibby, and D. J. Hernandez, Environmental Research Laboratory, EPA Corvallis, OR

The results presented in this report give an indication of the pollutants that would be generated and the resources consumed in operating a treatment facility similar to the one at Ely, Minnesota. The study analyzes not only the facility itself, but also those industries that supply products to the treatment plant. It was found that the total energy requirement of the advanced wastewater treatment plant was 50×10^6 Btu/million gallons of water treated. EPA CONTACT: Randolph, K.

600/3–76–093 PE 1AA003 GRANT NO. 801119

Analysis of Atmospheric Organic Aerosols by Mass Spectroscopy BY A. L. Crittenden, Washington, University of Seattle, WA

High resolution mass spectroscopy has been found to be a useful means of characterizing the organic fraction of urban aerosols. Quantitative accuracy, however, was limited, particularly for compounds of low abundance. Some ambiguities were found in the assignment of origins of ions formed in the mass spectrometer. Compounds that were detected included phenols; aromatic carboxylic acids and, possibly esters of these; and aliphatic dibasic acids. Evidence was found of several other difunctional compounds, including nitrate or nitrite species. Strong evidence was found for the presence in some urban aerosols of compounds reported by others as products of the oxidation of toluene in smog chamber reactions. Less evidence was found for products formed by the oxidation of terpenes. A few samples of automobile exhaust particulates were analyzed. The occurrence of benzoic acid and the benzoyl ion in mass spectra appear to be possible indicators of automotive contribution to the organic components. Results for a large number of compounds are provided for 88 samples of aerosols collected at sites located in the greater Los Angeles, Seattle, St. Louis, and Denver areas. EPA CONTACT: Patterson, R. K. 8–629–2253

NEW REPORT ABSTRACTS SECTION

600/3-76-098   PE 1BA608   IN-HOUSE PROJECT

Effects of Wastewater and Cooling Water Chlorination on Aquatic Life BY W. A. Brungs, Environmental Research Laboratory, EPA Duluth, MN

The literature since 1972 pertaining to wastewater and cooling water chlorination is discussed under the following headings: review papers, chlorinated municipal wastewaters, continuously chlorinated water, intermittently chlorinated water, dechlorination, avoidance, formation of chlorinated organic compounds, aquatic life criteria and application factors, and regulations. Field and laboratory research results support a single criterion of 0.003 mg/1 for continuous exposure of freshwater organisms. The former distinction between warmwater and coldwater systems is no longer appropriate; recent data indicate that several freshwater fish species are as sensitive as trout and salmon. The present concern for the formation of chlorinated organics in water and wastewaters is justifiable and the greatest present need is to determine the ecological significance, if any, of these results. The future course of wastewater chlorination will be greatly influenced by the recent proposed changes in the Environmental Protection Agency's regulations on secondary treatment. The changes intend that disinfection only be considered when public health hazards need to be controlled, and that the exclusive use of chlorine should not be considered where protection of aquatic life is of primary consideration. Where these uses co-exist, alternate means of disinfection must be considered. EPA CONTACT: Brungs, W. A. 8-783-9546

600/3-76-100   PE EHE252   IN-HOUSE PROJECT

Cooling Tower Plume Model Environmental Research Laboratory, EPA Corvallis, OR

A review of recently reported cooling tower plume models yields none that are universally accepted. The entrainment and drag mechanisms and the effect of moisture on the plume trajectory are phenomena which are treated differently by various investigators. In order to better understand these phenomena, a simple numerical scheme is developed which can readily be used to evaluate different entrainment and drag assumptions. Preliminary results indicate that in moderate winds most of the entrainment due to wind can be accounted for by the direct impingement of the wind on the plume path. Initially, the pressure difference across the plume is found to produce a substantial drag force. Thus, it is likely that a certain portion of the plume bending is due to these pressure forces, and artificially increasing wind entrainment to fit experimental data is unnecessary.

600/3-76-101   PE 1BA032   GRANT NO. 800818

Experimental/Analytical Investigation of Deep Submerged Multiple Buoyant Jets BY L. U. Kannberg, and L. R. Davis, Oregon State University Corvallis, OR

The results of an experimental and analytical study of deep submerged multiple-port thermal discharges are presented. The experimental results include the measured downstream thermal dilution, width, and centerline trajectory of the buoyant thermal plume from multiple port discharges consisting of a row of equally spaced discharge ports. Independent parameters for which measurements were obtained include port spacing, discharge Froude Number, discharge angle, and discharge to ambient velocity ratio. Results indicate that decreasing port spacing greatly decreases thermal dilution. The analytical portion of this report presents a modified version of the Hirst lumped differential plume model. It has been extensively modified to include multiple plume effects including gradual transition of the plume profiles from simple axisymmetric profiles to merging profiles and finally to fully merged profiles and entrainment based on the variable available entrainment surface of merging plumes. The results of the tuned model agree well with available experimental data. EPA CONTACT: Shirazi, M. A.

600/3-76-102   PE 1AA006   ROAP/TASK 21 ALS 08   IN-HOUSE PROJECT

Susceptibility of Woody Plants to Sulfur Dioxide and Photochemical Oxidants BY D. D. Davis, and R. G. Wilhour, Environmental Research Laboratory, EPA Corvallis, OR

This report presents the result of a detailed review of European and United States literature regarding the sensitivity of woody vegetation to sulfur dioxide, ozone, peroxyacetyl nitrate (PAN), or nitrogen oxides. Reference is made to Russian, Japanese and Austrian literature only when species examined are commercially important in the United States. The manner in which the original susceptibility data were collected may influence the relative position of a species in a composite susceptibility table. Therefore, many original tables are presented for individual interpretation of susceptibility. Composite summary susceptibility tables are also presented for each pollutant. Relative sensitivity compilations should be used with caution and with an understanding of inherent limitations. The sensitivity categories of "very susceptible" and "very tolerant" should be of great assistance in selecting woody vegetation for planting in areas of high air pollution potential. However, for species found in the "intermediate" sensitivity category, greater emphasis should be placed on local environmental condition and economic factors than on air pollution sensitivity. EPA CONTACT: Wilhour, R. G. 8-420-4634

NEW REPORT ABSTRACTS SECTION

600/3–76–103 **PE 1BA031** **GRANT NO. 800431–03–**

Aspects of Phosphate Utilization by Blue-Green Algae BY T. E. Jensen, and Herbert H. Lehman College of CUNY Bronx, NY

The effects of various external phosphate concentrations on physiological and cytological aspects of *Plectonema boryanum* have been studied. *P. boryanum* was found to tolerate a wide range of phosphate concentrations, from 1 to 1000 mg of phosphate per liter. Growth of the alga in these concentrations was characterized by changes in the subcellular distribution of phosphorus-containing compounds and in ultrastructural changes which were monitored by transmission electron microscopy. Culturing the alga in phosphate-free or phosphate deficient medium led to general reductions of phosphate in all cell fractions examined, with the most dramatic decrease in both short and long chain polyphosphates. Cytologically, the phosphate starvation period was characterized by the development of areas of medium electron density, and vacuolization resulting from expansion of intrathylakoidal spaces. Inoculation of the phosphate-starved algae into a medium containing a known amount of phosphate led to increases in all phosphorus-containing fractions, particularly the polyphosphates. Increases in both short and long chain polyphosphates were greater than an order of magnitude. The satisfaction of the "phosphorus debt" was met essentially within an hour. Examination of the cells revealed that the cells develop polyphosphate bodies in the characteristic areas of medium electron density that develop during phosphate starvation or phosphate limitation. X-ray energy dispersive analysis of the polyphosphate bodies confirmed that they are deposits consisting of two major elements, phosphorus and calcium. EPA CONTACT: Miller, W. E. 8–420–4775

600/3–76–104 **PE 1BC611** **IN-HOUSE PROJECT**

Water-Related Utilities for Small Communities in Rural Alaska BY B. Puchtler, B. Reid, and C. Christianson, Arctic Environmental Research Laboratory, EPA College, AK

The "Alaska Village Demonstration Projects" (AVDP) were authorized by Section 113, P.L. 92–500 (86 STAT 816), for the purpose of demonstrating methods to improve sanitary conditions in native villages of Alaska. Central community facilities have been constructed in the native villages of Emmonak and Wainwright to provide a safe water supply; toilets, bathing and laundry facilities; and sewage and waste disposal. The idea of coming to a community center to secure water, to do the laundry, and to bathe has proven acceptable to the people of Wainwright and Emmonak. However, Alaskan native villages generally cannot pay, through service charges, the full cost of routine operation and maintenance of water-related utilities, especially where complex treatment is required to meet waste treatment standards. The physical-chemical wastewater treatment provided required considerable modification and detailed operator attention to provide consistent secondary treatment. There is no single best method of constructing water-related utility facilities in rural Alaska. EPA CONTACT: Randolph, K. 8–420–4791

600/4–76–029a **PE 1AA009** **CONTRACT NO. 68–02–1704**

Empirical Techniques for Analyzing Air Quality and Meteorological Data—Part I. The Role of Empirical Methods in Air Quality and Meteorological Analyses BY W. S. Meisel, TEchnology Service Corporation Santa Monica, CA

Empirical methods have found limited application in air quality and meteorological analyses, largely because of a lack of good data and the large number of variables in most applications. More and better data, along with advances in methodology, have broadened the applicability of empirical approaches. This report illustrates the types of problems for which creative empirical approaches have the potential for significant contributions. The results of two pilot projects are reported in some detail. EPA CONTACT: Calder, K. L. 8–629–4545

600/4–76–030a **PE 1AA009** **IN-HOUSE PROJECT**

Atmospheric Dispersion Parameters in Gaussian Plume Modeling: Part I. Review of Current Systems and Possible Future Development BY A. H. Weber, North Carolina State University Raleigh, NC

A recapitulation of the Gaussian plume model is presented and Pasquill's technique of assessing the sensitivity of this model is given. A number of methods for determining dispersion parameters in the Gaussian plume model are reviewed. Comparisons are made with the Pasquill-Gifford curves presently used in the Turner Workbook. Improved methods resulting from recent investigations are discussed, in an introductory way for Part II of this report. EPA CONTACT: Calder, K. L. 8–629–4545

600/4–76–035 **PE 1HD621** **IN-HOUSE PROJECT**

Factors Affecting the Use of CaF_2:Mn Thermoluminescent Dosimeters for Low-Level Environmental Radiation Monitoring BY K. C. Gross, E. J. McNamara, and W. L. Brinck, Environmental Monitoring & Support Laboratory, EPA Cincinnati, OH

An investigation was made of factors affecting the use of commercially-produced CaF_2:Mn thermoluminescent dosimeters for low level environmental radiation monitoring. Calibration factors and self-dosing rates were quantified for 150 thermoluminescent dosimeters. Laboratory studies were made of precision, linear response to dose rate, effects of light, and time-dependent fading. A standard laboratory procedure was devised and a computer program was written to calculate, analyze, and store the large amounts of data that were accumulated. Extensive environmental measurements were subsequently carried out at the Vermont Yankee Nuclear Power Station. The results of this investigation indicate that selected dosimeters, when properly calibrated and corrected for self-irradiation, can be used for accurate and reliable monitoring of low-level environmental radiation.

NEW REPORT ABSTRACTS SECTION

600/4–76–036 **PE 1HD620** **CONTRACT NO. 68–01–0759**

Monitoring Groundwater Quality: Illustrative Examples BY R. M. Tinlin, General Electric Company, Center for Advanced Studies, TEMPO Santa Barbara, CA

This report is designed to show by example site-specific procedures for monitoring various classes of groundwater pollution sources. The first of five case histories of actual or potential groundwater pollution are presented with the monitoring techniques and their efficacy. The case histories cover brine disposal in Arkansas, plating waste contamination in Long Island, New York, landfill leachate pollution in Milford, Connecticut, and oxidation pond near Tucson, Arizona, and multiple-source nitrate pollution in the Fresno-Clovis, California, metropolitan area. The report concludes with hypothetical illustrative examples for developing and selecting monitoring alternatives based on a cost comparison between other alternatives and hydrologic judgment. The examples illustrated cover agricultural return flow, septic tanks, percolation ponds, and landfills. EPA CONTACT: Morgan, G. B.

600/4–76–037 **PE 1AA009** **CONTRACT NO. 68–02–1767**

Refinement and Validation of an Urban Meteorological Pollutant Model BY J. P. Pandolfo, C. A. Jacobs, R. J. Ball, and M. A. Atwater, Center for the Environment and Man, Inc. Hartford, CT

This report discusses the refinement of a grid point model for predicting atmospheric transport and diffusion in an urban boundary layer. In earlier studies, a coarse 8-mile horizontal square grid was used to predict CO concentrations in the Los Angeles Metropolitan area. In this study, a 2-mile grid for the CO emission has been used to test a recent hypothesis that predictive accuracy can be improved by incorporating a finer horizontal grid resolution to more accurately reflect the spatial distribution of a pollutant emission pattern. However, contrary to expectations, the evaluation statistics show that increasing the degree of horizontal detail in the source emission inventory did not significantly increase the sensitivity and accuracy of the pollutant concentration forecast. When compared to other models, this pollutant forecast is among the most accurate when predicting the overall average concentration and temporal correlation, and approximately as accurate as other primitive equation models in terms of spatial correlation statistics. EPA CONTACT: Ching, J.

600/4–76–038 **PE 1HD621** **IN-HOUSE PROJECT**

Application of EPA Method 6 to High Sulfur Dioxide Concentrations Environmental Monitoring & Support Laboratory, EPA Research Triangle Park, NC

The application of EPA test method (M-6) to the analysis of higher sulfur dioxide concentrations than had previously been employed has been studied. The use of prepared gas mixtures showed that the method is efficient for the measurement of gaseous sulfur dioxide in concentrations of up to 80,000 mg/m. The investigation also showed no evidence of retention of significant quantities of sulfur dioxide in the isopropyl alcohol bubbler or of the production of sulfur compounds that are insensitive to barium-thorin analysis. When multiple impinger trains were employed, analysis of individual impinger contents showed that more than 99% of the sampled sulfur dioxide was collected in the first two impingers, even at the higher concentration, except when sufficient sample was collected to deplete the hydrogen peroxide in the absorbing solutions or when excessively high flow rates were used. These results contradict earlier reports that Method 6 suffers from a negative bias at high sulfur dioxide concentrations. EPA CONTACT: Knoll, J. E. 8–629–2195

600/4–76–039 **PE 1AA009** **GRANT NO. 803514**

Radiative Effects of Pollutants on the Planetary Boundary Layer BY A. Venkatram, and R. Viskanta, Purdue University West Lafayette, IN

The objective of this study was to gain a better understanding of the effects of pollutants on the thermal structure and pollutant dispersal in the planetary boundary layer. To this end numerical models of the boundary layer were constructed. Gaseous pollutants in the boundary layer were considered to absorb and emit thermal radiation, while aerosols were allowed to absorb and scatter solar energy. First, a one-dimensional numerical model of the boundary layer was constructed. The model used the two-stream method for the computation of radiative fluxes, and a turbulent kinetic energy model to account for turbulence. A series of numerical experiments were performed to determine the role of pollutants in modifying thermal structure and pollutant dispersal in the boundary layer. The results showed that the predominant influence of gaseous and particulate pollutants on surface temperature was warming. Radiative participation by pollutants increased the stability of the surface layer during the day. During the night, the warmer surface temperatures caused the surface layer to become less stable. The second phase of the study involved the construction of a two-dimensional numerical model to study the effects of pollutants on urban-rural differences in thermal structure and pollutant dispersal. The effects of pollutants on pollutant dispersal were found to be significant. At the source height (100 m) in the urban area, the pollutant concentration was reduced by as much as 13.5% during the night. EPA CONTACT: Peterson, J. T. 8–629–4552

NEW REPORT ABSTRACTS SECTION

600/4-76-040 PE 1AA003 ROAP/TASK 26 AAI 413 CONTRACT NO. 68-02-1081

Regional Air Pollution Study: Gas Chromatography Laboratory Operations BY A. C. Jones, and R. F. Mindrup Jr., Rockwell International Corporation Creve Coeur, MO

The Regional Air Pollution Study (RAPS) is collecting data on a regional scale for the evaluation and further development of air quality simulation models. A gas chromatography laboratory is operated to provide analyses for selected pollutants required to fully assess various submodels included in air quality simulation models. Hydrocarbons and other components of the atmosphere are analyzed in support of such studies as: 1) evaluation and development of submodels concerned with photo-oxidation reactions and transformations in the atmosphere; 2) evaluation of emissions inventory submodels; 3) tracking plumes; and 4) relationship between grid area measurements and grid point measurements. Specifically, atmospheric samples were analyzed for C_1-C_{10} hydrocarbons, CO, NO + NO_2, and total hydrocarbons. Additionally, analytical procedures were prepared and made operational for SO_2, SF_6, fluorocarbon -11, and fluorocarbon -12. The report describes the preparations and operations of a gas chromatography laboratory for analysis of atmospheric samples. The report includes a work plan, chromatographic sampling and analysis schemes, quality assurance tests, and air sample bag storage and contamination tests. EPA CONTACT: Schiermeier, F. A.

600/4-76-041 PE 1AD606 IN-HOUSE PROJECT

Air Quality Data for Metals 1970 through 1974 from the National Air Surveillance Networks BY G. G. Akland, Environmental Monitoring & Support Laboratory, EPA Research Triangle Park, NC

This report lists the urban and nonurban concentrations of 11 metallic components of suspended particulate matter from samples gathered during calendar years 1970 through 1974 by the cooperating stations of the National Air Surveillance Network (NASN). The data are presented as a quarterly composite concentration value for each site for each of the four quarters of the calendar year. EPA CONTACT: Akland, G. G. 8-629-2346

600/4-76-042 PE 1AA009 IN-HOUSE PROJECT

"Gaussian-Plume" Model with Limited Vertical Mixing BY F. Pasquill, Environmental Sciences Research Laboratory, EPA Research Triangle Park, NC

Application of the "Gaussian-plume" model for atmospheric dispersion from an elevated source in a mixing layer of limited depth normally involves consideration of multiple reflections of the plume between the upper and lower boundaries. The present analysis considers some simple approximation formulae that should be useful in practical applications. EPA CONTACT: Calder, K. L. 8-629-4545

600/4-76-043 PE 1HD620 CONTRACT NO. 68-03-0473

Procedures for Evaluation Operations of Ambient Air Monitoring Networks: A Manual BY R. W. Shnider, and E. S. Shapiro, URS Research Company San Mateo, CA

This manual is designed to evaluate the efficiency of ambient air monitoring networks whose primary objective is to document compliance with or progress toward attaining ambient air quality standards. The manual provides methods to evaluate the efficiency of each of six operational areas: Network Plan and Design, Personnel Qualifications, Facilities and Equipment, Sampling and Analysis, Quality Assurance, and Data Utilization. A technique is presented for the overall integrated evaluation of the operational areas. A final section provides methods to evaluate the efficiency of budgetary allocations. EPA CONTACT: Schuck, E. A.

600/4-76-044 PE 1HD621 IN-HOUSE PROJECT

EPA Program for the Standardization of Stationary Source Emission Test Methodology—A Review BY M. R. Midgett, Environmental Monitoring & Support Laboratory, EPA Research Triangle Park, NC

This report contains the results from a program designed to standardize those emission test methods promulgated by the EPA for use in determining compliance with Federal emission standards. The approach taken has been to conduct at least a limited laboratory and field evaluation, followed by an interlaboratory collaborative test of each method. Emphasis here is placed on the collaborative testing, the results of which are presented in terms of within-laboratory, between-laboratory, and laboratory bias standard deviations. These estimates are based on single-run results, and not on the results of three consecutive runs as would be required in conducting compliance testing. A brief discussion is given of the manner in which the precision estimates are derived. Determination of method accuracy is also considered where practical. The design of each test, deficiencies in test design, and other problems affecting the test results are discussed. An improved test design that overcomes most of the problems observed in earlier tests is described. A brief discussion of current projects and future plans is given as well as references to the numerous reports on the results of the methods standardization activities. EPA CONTACT: Midgett, M. R. 8-629-2196

NEW REPORT ABSTRACTS SECTION

600/4-76-045　　PE 1HA326　　CONTRACT NO. 68-01-0759

Monitoring Groundwater Quality: Economic Framework and Principles BY R. L. Crouch, R. D. Eckert, and D. D. Rugg, General Electric Company, Center for Advanced Studies, TEMPO Santa Barbara, CA

Discusses the economic considerations in selecting an optimal groundwater quality monitoring system. Section I argues that poor specification of the property rights in groundwater is a major cause of excessive pollution. Section II examines groundwater adjudication and legislation and notes that government intervention through the authority of PL 92-500 will take the form of government-established and -enforced groundwater quality standards. Section III discusses the overall costs and benefits to society involved in groundwater quality monitoring. Section IV discusses monitoring needs for establishment of quality standards and their enforcement, and develops a cost-benefit framework for the analysis of groundwater quality monitoring. Section V examines an alternative regulatory approach based on "waste relocation rights" for property owners. These rights would protect property owners' groundwater from pollution by others through specifying allowable pollutant levels. They would be transferable in the marketplace (like mineral rights) and enforcement of them would be carried out in the courts. EPA CONTACT: Morgan, G. B.

600/4-76-047　　PE 1AA603　　IN-HOUSE PROJECT

Stack Placement in the Lee of a Mountain Ridge – A Wind Tunnel Study BY A. H. Huber, R. S. Thompson, and R. E. Lawson Jr., Environmental Sciences Research Laboratory, EPA Research Triangle Park, NC BY W. H. Snyder, National Oceanic and Atmospheric Administration Washington, DC

An investigation of the highly turbulent region in the lee of a two-dimensional mountain ridge was carried out in the Meteorological Wind Tunnel of the U.S. EPA's Fluid Modeling Facility. This highly turbulent region was found to consist of a large semi-permanent eddy. Smoke visualization and hot film anemometry measurements showed that the cavity size and shape are minimally affected by the thickness and turbulence intensity of the approach boundary layer flow. In addition, the cavity size and shape were not found to be affected by the detailed shape of the ridge, but were strongly dependent upon the upwind terrain and the gross features (angles) of the downslope. A stack was positioned to emit an air-methane mixture into the cavity in the lee of the ridge. Longitudinal, lateral and vertical concentration profiles were taken. A tall stack placed to emit into the upper portion of the cavity resulted in higher ground level concentrations near the downwind end of the cavity than did a shorter stack. However, the maximum concentrations measured were found to occur near the bases of the shorter stacks. The cavity region leeward of the model ridge was found to be highly turbulent with significant plume downwash. For similar real-atmosphere situations, it would be good engineering practice to avoid placement of any significant source within the expected cavity region. Application of the "2 1/2 times rule" for stack construction would be sufficient to avoid the highly turbulent region of the cavity proper.

600/4-76-050　　PE 1HD620　　CONTRACT NO. 68-03-0473

Procedures for Evaluating Operations of Water Monitoring Networks BY R. W. Shnider, and E. S. Shapiro, URS Research Company San Mateo, CA

The report is designed as a manual to evaluate the efficiency of surface-water quality monitoring networks whose primary objective is to document compliance with or progress toward attaining ambient water quality standards. The manual provides methods to evaluate the efficiency of each of seven operational areas: Network Plan and Design, Personnel, Facilities and Equipment, Sampling Quality Assurance, Data Distribution and Dissemination, and Agency Interactions. A technique is presented for the overall integrated evaluation of the operational areas. A final section provides methods to evaluate the efficiency of budgetary allocations. EPA CONTACT: Schuck, E. A. 8-595-2969

600/5-76-005　　PE 1BA030　　CONTRACT NO. 68-01-2671

Restoring the Willamette River: Costs and Impacts of Water Quality Control BY E. S. Huff, P. C. Klingeman, H. H. Stoevener, and H. F. Horton, Oregon State University, Water Resources Research Institute Corvallis, OR

The means by which the water quality of the Willamette River has been upgraded over the past four decades are documented. Two strategies—point-source wastewater treatment and flow augmentation from a network of federal reservoirs—have been responsible for this improvement in water quality. The series of tactics employed in gradually reducing point-source waste discharges are documented. Coincident water quality benefits which have resulted from flow augmentation for other purposes are also discussed. The economic and energetic costs of constructing, operating, and maintaining the facilities which have significantly contributed to the improvement of water quality in the Willamette River and its tributaries over the last half century are examined. Data are presented regarding the construction and operation of municipal collection and treatment systems, industrial water pollution abatement facilities, and reservoirs. Input-Output economics and a methodology for converting dollar costs to direct and total energy requirements are used to deal with construction and operational costs. Operation and maintenance expenditures are also dealt with on the basis of direct at-site requirements. Energy needs for operating water quality control facilities are about one-tenth of one percent of total basin energy utilization. Substantial savings of this energy are possible however. Historic and current status of the fishery and wildlife resources of the Willamette River Basin are reviewed in relation to changing water quality of the River. Recent improvements in water quality have stimulated State and Federal agencies to embark on a nine-year program to fully develop the fishery resources of the Basin. The potential biologic, economic, and social values of the program are presented along with related adverse effects attributed to water quality improvement procedures. EPA CONTACT: Falco, J. W. 8-289-3585

NEW REPORT ABSTRACTS SECTION

600/5–76–006 **PE 1HA093** **CONTRACT NO. 68–01–2481**

Effects of Automotive Fuel Conservation Measures on Automotive Air Pollution BY R. Landis, Charles River Associates, Inc. Cambridge, MA

A number of policies have been designed to reduce gasoline consumption by automobiles, including: gasoline rationing; increases in the federal excise tax on gasoline; excise taxes on new cars, in inverse proportion to their fuel economy; and regulations to set minimum levels on average fuel economy of new cars. This study is addressed to two questions dealing with these proposed policies. First, what will be the impact on fuel consumption by automobiles and by other competing modes of transportation, if different levels of these policies are put into effect? Second, what impact would these policies have on emissions and concentrations of automotive pollutants? The major conclusions of this study are: (a) Increases in the federal excise tax on gasoline and gasoline rationing are considerably more effective in conserving fuel than excise taxes and fuel economy restrictions on new cars, especially in the early years of the policies, (b) The policies aimed at new cars also lead, within several years of the date of the policy, to significant increases in emissions relative to base case emission, and (c) The effect of all of the policies will be small in the first year of the policy, but the effects will become more pronounced over time. This study presents quantitative estimates of gasoline consumption, automotive emissions and concentrations for several levels of the different policies. EPA CONTACT: Plotkin, S. E. 8–755–0646

600/5–76–007a **PE 1HC619** **CONTRACT NO. 68–01–3142**

Impacts of Material Substitution in Automobile Manufacture on Resource Recovery – Volume I: Results and Summary BY R. W. Roig, W. L. Henn, T. Jones, M. Narkus-Kramer, R. Renner, A. Watson, and C. Weaver, International Research amd Technology Corporation Arlington, VA

Probable changes in the mix of materials used to manufacture automobiles were examined to determine if economic or technical problems in recycling could arise such that the "abandoned automobile problem" would be resurrected. Future trends in materials composition of the automobile were quantified, and possible constraints related to material characteristics, availability, and price were examined. The automobile resource recovery industry was studied in terms of economic incentives for recycling and technical obstacles to recycling of deregistered automobiles. A macromodel of the economy, the EPA sponsored SEAS model, was used to study overall economic and environmental effects and to bring to light any secondary effects that might be important. The major conclusions are that auto hulks are likely to be in great demand for recycling, that the backlog of abandoned cars in the environment will very likely disappear by the early 1980's and that changes in materials composition of autos will accentuate this tendency. Vertical integration of the larger firms in the industry is a likely trend at both the input (hulk collection, dismantling, and preparation for shredding) and output (non-ferrous metals smelting) ends of the central hulk processing (shredding) part of the business. Overall economic impacts of the various automobile materials composition scenarios we studied were rather small, although effects in particular industries, relative to a base-case, no-change in materials composition scenario, were noticeable. EPA CONTACT: Lawrence, C. 8–245–3010

600/5–76–007b **PE 1HC619** **CONTRACT NO. 68–01–3142**

Impacts of Material Substitution in Automobile Manufacture on Resource Recovery – Volume II: Appendices A-E BY R. Renner, R. W. Roig, T. Jones, and C. Weaver, International Research and Technology Corporation Arlington, VA

Probable changes in the mix of materials used to manufacture automobiles were examined to determine if economic or technical problems in recycling could arise such that the "abandoned automobile problem" would be resurrected. Future trends in materials composition of the automobile were quantified, and possible constraints related to material characteristics, availability, and price were examined. The automobile resource recovery industry was studied in terms of economic incentives for recycling and technical obstacles to recycling of deregistered automobiles. A macro-model of the economy, the EPA sponsored SEAS model, was used to study overall economic and environmental effects and to bring to light any secondary effects that might be important. This volume contains appendices covering the following subjects: 1) Future Material Composition in Automobiles; 2) Projections of Automobile Sales by Weight Class; 3) Automotive Use of PLastics and Recycling Possibilities; 4) Safety Aspects of Materials Substitution; and 5) Energy Consequences. EPA CONTACT: Lawrence, C. 8–245–3010

600/5–76–007c **PE 1HC619** **CONTRACT NO. 68–01–3142**

Impacts of Material Substitution in Automobile Manufacture on Resource Recovery – Volume III: Appendices F-G BY W. L. Henn, and A. Watson, International Research and Technology Corporation Arlington, VA

Probable changes in the mix of materials used to manufacture automobiles were examined to determine if economic or technical problems in recycling could arise such that the "abandoned automobile problem" would be resurrected. Future trends in materials composition of the automobile were quantified, and possible constraints related to material characteristics, availability, and price were examined. The automobile resource recovery industry was studied in terms of economic incentives for recycling and technical obstacles to recycling of deregistered automobiles. A macromodel of the economy, the EPA sponsored SEAS model, was used to study overall economic and environmental effects and to bring to light any secondary effects that might be important. This volume contains appendices covering the following subjects: 1) Future Scrap Requirements and Prospects for Automotive Recycling and; 2) Demand, Availability, and Price of Steel and Substitute Materials for Automobile Manufacture. EPA CONTACT: Lawrence, C. 8–245–3010

NEW REPORT ABSTRACTS SECTION

600/5–76–007d **PE 1HC619** **CONTRACT NO. 68–01–3142**

Impacts of Material Substitution in Automobile Manufacture on Resource Recovery – Volume IV: Appendices H-J BY R. Henn, R. W. Roig, M. Narkus-Kramer, and A. Watson, International Research and Technology Corporation Arlington, VA

Probable changes in the mix of materials used to manufacture automobiles were examined to determine if economic or technical problems in recycling could arise such that the "abandoned automobile problem" would be resurrected. Future trends in materials composition of the automobile were quantified, and possible constraints related to material characteristics, availability, and price were examined. The automobile resource recovery industry was studied in terms of economic incentives for recycling and technical obstacles to recycling of deregistered automobiles. A macro-model of the economy, the EPA sponsored SEAS model, was used to study overall economic and environmental effects and to bring to light any secondary effects that might be important. This volume contains appendices covering the following subjects: 1) Shredder Industry Survey, 2) Material Substitution and Automobile Performance, 3) Integrated Analysis of the Impact of Automobile Composition Changes Using the Strategic Environmental Assessment System. EPA CONTACT: Lawrence, C. 8–245–3010

600/7–76–004a **PE EHE623** **CONTRACT NO. 68–02–2016**

Impacts of Synthetic Liquid Fuel Development – Automotive Market: Volume I. Summary BY E. M. Dickson, R. V. Steele, E. E. Hughes, B. L. Walton, R. A. Zink, P. D. Miller, J. W. Ryan, P. B. Simmon, and B. R. Holt, Stanford Research Institute Menlo Park, CA

This study assesses the impacts of the development of synthetic liquid fuels from coal and oil shale; the fuels considered are synthetic crude oils from coal and oil shale and methanol from coal. Key issues examined in detail are the technology and all of its resource requirements, net energy analyses of the technological options, a maximum credible implementation schedule, legal mechanisms for access to coal and oil shale resources, financing of a synthetic liquid fuels industry, decision making in the petroleum industry, governmental incentive policies, local and national economic impacts, environmental effects of strip mining, urbanization of rural areas, air pollution control, water resources and their availability, and population growth and boom town effects in previously rural areas. EPA CONTACT: Foley, G. J. 8–755–0207

600/7–76–004b **PE EHE623** **CONTRACT NO. 68–02–2016**

Impacts of Synthetic Liquid Fuel Development – Automotive Market: Volume II BY E. M. Dickson, R. V. Steele, E. E. Hughes, B. L. Walton, R. A. Zink, P. D. Miller, J. W. Ryan, P. B. Simmon, and B. R. Holt, Stanford Research Institute Menlo Park, CA

This study assesses the impacts of the development of synthetic liquid fuels from coal and oil shale; the fuels considered are synthetic crude oils from coal and oil shale and methanol from coal. Key issues examined in detail are the technology and all of its resource requirements, net energy analyses of the technological options, a maximum credible implementation schedule, legal mechanisms for access to coal and oil shale resources, financing of a synthetic liquid fuels industry, decision making in the petroleum industry, government incentive policies, local and national economic impacts, environmental effects of strip mining, urbanization of rural areas, air pollution control, water resources and their availability, and population growth and boom town effects in previously rural areas. EPA CONTACT: Foley, G. J. 8–755–0207

600/7–76–005 **PE EHE625** **IAG NO. IAG-D5-E721**

Voltammetric Determination of Acrolein BY L. H. Lyman, Tennessee Valley Authority Chattanooga, TN

A differential pulse polarographic method was developed for the determination of acrolein in natural and condenser cooling water. It is based on electrochemical reduction of acrolein at negative potentials at the dropping mercury electrode. The sample solution is buffered at ph 7.2 with a phosphate buffer solution and ethylenediaminetetraacetic acid is added (0.09%) to prevent interference from zinc. The height of the polarographic peak at about −1.2 V vs. the saturated calomel electrode (S.C.E.) is measured and referred to a standard curve. The recovery of acrolein was unaffected by ph in the 6.8–7.6 range and by zinc at 2.0 mg/1. The range of the method is from 0.05 to at least 0.5 mg/1 of acrolein. Replicate analyses of standard solutions containing 0.1 and 0.3 mg/1 of acrolein gave relative standard deviations of 7.2 and 4.1% and relative errors of .2.8 and 3.3%, respectively. The recommended method is given in the appendix. Acrolein can also be determined by differential pulse voltammetry at the glassy carbon electrode. The acrolein is measured indirectly by forming the acrolein-sulfite complex and oxidatively measuring unreacted sulfite at positive potentials in a phosphate buffer solution at ph 7.2. This procedure does not require lengthy deaeration to remove oxygen, but its sensitivity (10 mg/1) makes it less attractive than the recommended method. Sulfite was tested as a preservative for acrolein samples. EPA CONTACT: D'Allessio, G.

600/7–76–006 **PE EHE626** **IN-HOUSE PROJECT**

Federal Interagency Energy/Environment Research and Development Program Status Report II Office of Energy, Minerals, and Industry, EPA Washington, DC

The report examines the role of the Environmental Protection Agency's Office of Energy, Minerals, and Industry (OEMI), a newly-established operation within the Office of Research and Development, which is responsible for coordinating the implementation of the energy/environment R&D program in FY 1975 and FY 1976. OEMI's program is described and related to EPA's past efforts to develop energy related pollution control technologies and to determine the environmental effects of energy-related activities. This report is organized into the following three sections: Section one: Introduction and overview, Section two: Processes and Effects Program, and Section three: Environmental Control Technology Program. EPA CONTACT: Laska, R. 8–426–2683

NEW REPORT ABSTRACTS SECTION

600/7-76-007 PE EHB527 IAG NO. IAG-D5-E681

Environmental Contamination from Trace Elements in Coal Preparation Wastes; A Literature Review and Assessment BY E. M. Wewerka, J. M. Williams, P. L. Wanek, and J. D. Olsen, California, University of, Los Alamos Scientific Laboratory Los Alamos, NM

The report gives results of collecting and evaluating available information on the chemistry and behavior of trace elements in coal preparation wastes, and assessing the potential for environmental contamination from the trace elements in these wastes. Only limited attention has been2L given previously to the chemistry of trace elements in coal waste mater-t ials; however, most of the knowledge concerning trace elements and minerals in raw coals can be applied directly to coal wastes. Nearly every naturally occurring element is likely to be present in coal and coal refuse. The fate of these elements during coal preparation is poorly defined; but, large concentrations of trace elements are discarded in the washing refuse. Although the behavior of trace elements during refuse weathering, leaching, and burning is not well understood, sufficient data exists to show that toxic or harmful quantities of elements (e.g., Fe, Al, Mn, Co, Ni, and Zn) are often released to the environment. A comprehensive assessment of the full potential for environmental contamination from the trace elements in these wastes cannot be made without further extensive research. EPA CONTACT: Kilgroe, J. D. 8-629-2851

600/7-76-008 PE EHE624 CONTRACT NO. 68-02-1814

EPA Alkali Scrubbing Test Facility: Advanced Program Second Progress Report BY H. N. Head, Bechtel Corporation San Francisco, CA

The report gives results of advanced testing (from June 1975 to February 1976) of 30,000 acfm (10 MW equivalent) lime/limestone wet scrubbers for SO_2 and particulate removal at TVA's Shawnee Power Station. No reliability problems were experienced in 1143 hours of lime testing with cycling gas rate to simulate variable load operation in the venturi/spray tower. Clean operation of the mist eliminator (M.E.) system (3-pass, open-vane chevron M.E. with intermittent top and bottom wash) was achieved using lime in the venturi/spray tower system, but plugging occurred with a similar M.E. system using limestone in the Turbulent Contact Absorber. In tests to improve limestone utilization, M.E. reliability was found to be a strong function of alkali utilization. In both scrubber systems, intermittent top and bottom wash kept the M.E. clean at alkali utilization greater than 85%. Below 85% alkali utilization, a continuous bottom wash was required. Limestone utilization was correlated with scrubber inlet pH, hold tank residence time, and hold tank design. EPA CONTACT: Williams, J. E. 8-629-2915

600/7-76-009a PE 1AB014 ROAP/TASK 21 BCC 013 CONTRACT NO. 68-02-0224

Mechanism and Kinetics of the Formation of NO_x and Other Combustion Pollutants: Phase I. Unmodified Combustion BY V. S. Engleman, and W. Bartok, Exxon Research and Engineering Company Linden, NJ

The report gives Phase I results of an investigation of the mechanisms and kinetics of the formation of NO_x and other combustion pollutants. It gives results of experimental investigations of unmodified combustion and supporting theoretical calculations. The combustion of hydrogen, carbon monoxide, methane, and propane with air in a jet-stirred combustor (JSC) was studied to facilitate the assessment of coupled combustion/pollutant formation. The JSC tests also extended the range and accuracy of data taken in previous studies. Experiments also included a flow reactor capable of accepting multiple burner types and operating with selected wall temperature. Premixed flat and focused flames, as well as laminar and turbulent diffusion flames, were studied in the flow reactor using methane and propane fuels. The tests included heat-loss and adiabatic conditions and a limited number of wall heat addition cases. Stirred reactor calculations, supporting the experimental program, indicated the need for more detailed kinetics in hydrocarbon/air combustion before NO_x formation can be predicted. Similarly, plug flow calculations indicated strong coupling between combustion reactions, specie diffusion, and NO_x formation in the flame zone. Further kinetic data on reactions between hydrocarbon fragments and nitrogenous species is required to properly assess the importance of those interactions in NO_x formation. EPA CONTACT: Lanier, W. S. 8-629-2432

600/7-76-009b PE 1AB014 ROAP/TASK 21 BCC 013 CONTRACT NO. 68-02-0224

Mechanism and Kinetics of the Formation of NO_x and Other Combustion Pollutants: Phase II. Modified Combustion BY V. S. Engleman, V. J. Siminski, and W. Bartok, Exxon Research and Engineering Company Linden, NJ

The report gives Phase II results of a combined experimental/theoretical study to define the mechanisms and kinetics of the formation of NO_x and other combustion pollutants. Two experimental devices were used in Phase II. A special flat-flame burner with a controlled-temperature post-flame zone was used to investigate combustion modification techniques used to control NO_x emissions: staged combustion, water addition, exhaust gas recirculation, and degree of air preheat. Augmenting the Phase I (unmodified) combustion testing, a novel flow reactor—the adiabatic stirred combustor (ASC)—was built for use in Phase II. The ASC had two distinct zones: a stirred reactor zone, followed by a plug flow zone. Each zone incorporated special provisions to eliminate heat loss from the combustion process. This new device allowed kinetic studies unhindered by mixing or heat transfer limitations. ASC test results were compared with detailed kinetics calculations using a prescreened set of reactions from an evaluation of all possible uni- and bi-molecular reactions for species of importance to methane/air combustion. In contrast to previous comparisons, good matches were obtained for the methane/air system over the entire stoichiometry range. The comparisons showed strong interaction between hydrocarbon species and molecular nitrogen near stoichiometric and fuel-rich conditions. EPA CONTACT: Lanier, W. S. 8-629-2432

NEW REPORT ABSTRACTS SECTION

600/7–76–010 PE EHE624 CONTRACT NO. 68–02–1318

Symposium on Particulate Control in Energy Processes BY D. E. Blake, Acurex Corporation Mountain View, CA

The proceedings are a compilation of papers presented at a symposium, cosponsored by EPA's Industrial Environmental Research Laboratory (Research Triangle Park) and the Electric Power Research Institute, and featuring speakers representing the utility industry, research organizations, and government agencies. Purpose of the symposium was to examine the current state of particulate control technology for energy processes, to discuss practical solutions to problems with particulate from Western U.S. coals, and to consider recent progress in high-temperature/high-pressure energy processes. Control of particulate emissions from conventional power generation is well developed and reasonably effective. However, some recent technological developments—increasing use of low-sulfur, high-ash Western U.S. coals, and new high-temperature/high-pressure processes—have increased the difficulty of achieving effective particulate control. EPA CONTACT: Drehmel, D. C. 8–629–2925

600/7–76–011 PE EHE623 CONTRACT NO. 68–02–1312

Studies of the Pressurized Fluidized-Bed Coal Combustion Process BY R. C. Hoke, R. R. Bertrand, M. S. Nutkis, D. D. Kinzler, L. A. Ruth, and M. W. Gregory, Exxon Research and Engineering Company Linden, NJ

The report gives results of studies of the environmental aspects of the pressurized fluidized-bed coal combustion (FBCC) process, using two experimental facilities: a new 218 kg coal/hr "miniplant" combustor (0.63 MW equivalent), and a 13 kg coal/hr "batch" combustion unit. Successful shakedown of the miniplant combustor culminated in a continuous 100-hr run. The miniplant combustor was operated at: coal rates up to 155 kg/hr (340 lb/hr), pressures up to 1020 kPa (10 atm), superficial velocities up to 3.2 m/s (10.5 ft/sec), temperatures up to 980C (1800F), and combustion intensities of 5 MW/cu m (480,000 Btu/hr-cu ft). Improvements in the coal feeding system and in the steam coil design were required to achieve these performance levels. Operating results from both facilities indicate that SO_2 emissions can be controlled to meet current EPA New Source Performance Standards for coal-fired utility boilers with either limestone or dolomite sorbents. NO_x emissions from pressurized FBCC can be controlled to 0.2 to 0.4 lb (as NO_2)/million Btu (0.09–0.17 g/million J), compared to the current EPA standard of 0.7 lb/million Btu (0.30 g/million J). Particulate emissions cannot be controlled to the current EPA standard with two stages of conventional cyclones. EPA CONTACT: Henschel, D. B. 8–629–2825

600/7–76–012 PE 1AB014 ROAP/TASK 21 ADG 089 GRANT NO. 803283

Inventory of Combustion-Related Emissions from Stationary Sources BY O. W. Dykema, and V. E. Kemp, Aerospace Corporation El Segundo, CA

The report describes the first year of a study covering the combustion-related emissions inventory phase of a 3-year program entitled, "Analysis of NO_x Control in Stationary Sources." The study is aimed at assisting in the establishment of priorities for detailed studies of techniques for the control of combustion-related emissions from stationary sources. To develop the proper perspective, it was necessary that the inventory include emissions of oxides of nitrogen, unburned hydrocarbons, carbon monoxide, and particulate, not only from recognized major stationary combustion sources, but also from other stationary source categories in which combustion plays a secondary role. During the first year of the study, emissions were established for 1975 and 1980 from boilers, internal combustion engines, chemical manufacturing, and petroleum refining. In the second year, comparative combustion-related emissions data will be obtained for selected industries including evaporation and primary metals. The third year will cover mineral products, secondary metals, and wood products. This report identifies approximately 90 percent of all nitrogen oxide emissions and from 40 to 50 percent of unburned hydrocarbons, carbon monoxide, and particulate matter for stationary sources. EPA CONTACT: Hall, R. E. 8–629–2477

600/7–76–013 PE EHE623 CONTRACT NO. 68–01–2940

EPA Program Status Report – Fuel Cleaning Program BY M. D. Levine, Stanford Research Institute Menlo Park, CA BY W. N. McCarthy Jr., and G. J. Foley, Office of Energy, Minerals, and Industry, EPA Washington, DC

The status of EPA's Fuel Cleaning Program as of August, 1976 is presented in nontechnical language. This program is a part of EPA's research directed toward providing the necessary technology for meeting near-term and long-term energy requirements in an environmentally acceptable manner. The objective of the program is to reduce environmental pollution by advancing the state-of-the-art of fuel cleaning technologies so that low-pollutant fuels can be produced in a cost effective manner in commercial-scale quantities. Significant accomplishments of the program are summarized and the thrust of the current research effort is discussed. A bibliography of R&D reports related to the fuel cleaning program is attached. EPA CONTACT: McCarthy, W. H. 8–755–0206

NEW REPORT ABSTRACTS SECTION

600/7-76-014 PE A535 CONTRACT NO. 68-01-2942

Potential Environmental Impacts of Solar Heating and Cooling Systems BY T. J. Consroe, F. M. Glaser, and R. W. Shaw Jr., Booz, Allen and Hamilton, Applied Research Division Bethesda, MD

The subject of this report is the potential environmental consequences of solar energy utilization for heating and cooling buildings. The report contains three chapters. The first chapter identifies the areas in which both positive and negative impacts are possible. The second chapter summarizes the national research and development program directed toward solar heating and cooling technology and describes how these programs address environmental considerations within the context of Federal agency responsibilities. The third chapter contains a general methodology for estimating the impact on air pollution of solar energy utilization in urban areas, and also contains an example application of the methodology. EPA CONTACT: D'Alessio, G. J. 8-426-4567

600/7-76-021 PE EHB528 IAG NO. IAG-D5-0721

TVA's 1-MW Pilot Plant: Vertical Duct Mist Elimination Testing— Progress Report **BY G. A. Hollinden, and R. F. Robards, Tennessee Valley Authority Chattanooga, TN BY T. M. Kelso, and R. M. Cole, Tennessee Valley Authority Muscle Shoals, AL**

The report reviews (for both the lime and limestone systems) the systematic test program which developed recent TVA-demonstrated washing techniques that maintain continuous mist eliminator performance for lime/limestone closed-loop scrubbing systems at TVA's 1-MW pilot plant at the Colbert power plant. Continuous operation of the chevron-type mist eliminator, positioned horizontally in a vertical duct, in the limestone system was maintained (after extensive testing) by washing the bottom of the mist eliminator intermittently with all the available clarified liquor, immediately followed by an allocated amount of the allowable makeup water. The top of the mist eliminator was washed intermittently with the remaining allocation of allowable makeup water. Continuous mist eliminator performance in the lime system was maintained by washing the bottom of the mist eliminator intermittently with an allocated amount of allowable makeup water. The remainder of the allocated makeup water was used to wash the top of the mist eliminator intermittently. EPA CONTACT: Williams, J. E. 8-629-2915

600/8-76-001a PE 1BC611 GRANT NO. 800854

Erosion and Sediment Control: Audiovisual Training Program Instructor's Manual BY T. R. Mills, M. A. Nawrocki, G. R. Squire, H. T. Hopkins, and M. L. Clar, Hittman Associates, Inc. Columbia, MD

A series of technical presentations and a certification plan for erosion and sediment control specialists are presented. Thirteen lessons complete with visual aids, student handouts and audiovisual handouts consisting of slides, videotape and tape narration, workbooks and instructor's manuals are developed. These materials are designed to provide an effective education program for qualifying construction personnel and others to pass a certification examination. The list of the lessons is as follows: 1. Goals, Objectives and Principles of Erosion and Sediment Control; 2. Soils; 3. Rainfall-Runoff Relationships; 4. Erosion and Sedimentation; 5. Plant Materials; 6. Control of Runoff During Construction; 7. Vegetative Soil Stabilization; 8. Stream Erosion Control; 9. Temporary Soil Stabilization; 10. Control of Sediment Generated on Construction Sites; 11. Erosion and Sediment Control Planning; 12. Wooded Site Development; and 13. Foreman-Inspector Responsibilities. EPA CONTACT: Condon, F. J. 8-426-3975

600/9-76-015 PE 1DC618 GRANT NO. 804330

Residual Management by Land Disposal – Proceedings of the Hazardous Waste Research Symposium BY W. H. Fuller, Arizona, University of Tucson, AZ

A research symposium was held to exchange recent information on land disposal of municipal and hazardous wastes. Papers were presented and compiled into a report on the following topics: (1) Case studies of actual and potential environmental impact from land disposal of hazardous wastes; (2) Technology of preventing adverse environmental impact; (3) Selection of disposal sites to minimize adverse impact; (4) Ameliorating damages at existing disposal sites and suggested modification of future sites and wastestreams; (5) Identification of pollution potential of selected industrial solid wastes; and (6) Special disposal problems. EPA CONTACT: Landreth, R. E. 8-684-7876

600/9-76-017 PE 1RW103 IN-HOUSE PROJECT

News of Environmental Research in Cincinnati, January – December 1975 Technical Information Staff, ORD, EPA Cincinnati, OH

A series of reports on the following subjects: NERC—Cincinnati electron microscope facility; poliovirus and bacterial indicators of fecal pollution in landfill leachates; examination of drinking water supplies for viruses; a copper-cadmium column for manually determining nitrate; pollution from urban land runoff; striving for zero discharge of industrial wastes; sewer transport of household refuse, a replacement for the refuse truck; the bacterial quality of bottled water; modern ways to strip mining in mountainous areas; nature and use of coal ash from utilities; a radiotelemetry system for monitoring respiration in dogs; improving the fuel value of sewage sludge; and do regulated freight rates discourage recycling? EPA CONTACT: Gigliotti, G. M. 8-684-7551

NEW REPORT ABSTRACTS SECTION

600/9-76-019 PE 1BD612 IN-HOUSE PROJECT

Viruses in Water, Renovated and Other Waters – 1975 Literature Abstracts BY G. Berg, Environmental Monitoring & Support Laboratory, EPA Cincinnati, OH

The volume comprises the abstracts of the published papers and books on viruses in waste, renovated, and other waters for 1975. EPA CONTACT: Berg, G. 8-684-7329

600/9-76-020 PE 1AB013 ROAP/TASK 21 ADE 034 CONTRACT NO. 68-02-1482

EPA Van Operational Manual BY N. E. Scholer, Engelhard Minerals and Chemical Corporation Union, NJ

The manual generally describes the EPA Van, and discusses both its energy control system and Van operation. The manual includes instructions for the Van's transportation, setup, safety, troubleshooting, and maintenance. The Van is a mobile research unit, designed for testing in various parts of the United States. Its unique energy supply system includes fuel cells, a solar energy collector, a heat pump, and catalytic appliances. An energy control system optimizes the energy consumed by the integrated system. EPA CONTACT: Steen, W. B. 8-629-2825

600/9-76-022 PE EHE623 CONTRACT NO. 68-01-2940

Research to Anticipate Environmental Impacts of Changing Resource Usage BY K. D. Moll, Stanford Research Institute Menlo Park, CA

This compilation of papers by 14 eminent authorities from government, academia, industry, and other institutions deals with research and policy problems facing EPA from recent and prospective changes in the availability of such natural resources as energy, minerals, agricultural land, and clean air and water. Among its major themes are the complex nature of interactions among resources, environments, and social values; and the need for research into the patterns of these interactions. Other themes call for increased research emphasis on patterns of resource flow and usage, on economic and social incentives for controlling the environment, on emergent potentially critical ecological problems, on several specific applied research and technology development programs, and on environmental monitoring and assessment techniques. The papers were delivered at a symposium held at Stanford Research Institute, August 27 and 28, 1975.

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68-02-0221	650/2-75-052	68-02-0335	650/4-74-012
68-02-0223	650/4-73-001	68-02-0542	600/1-75-005
68-02-0224	600/2-76-003	68-02-0543	650/2-73-037
68-02-0224	600/7-76-009a	68-02-0544	650/2-73-016
68-02-0224	600/7-76-009b	68-02-0545	650/2-74-040
68-02-0226	650/2-74-131	68-02-0546	650/2-74-029
68-02-0227	650/2-74-066	68-02-0551	650/2-73-010
68-02-0228	650/2-74-107	68-02-0553	650/4-73-003

CONTRACTS

PROJECT NO.	REPORT NO.
68-02-0556	650/9-75-001a
68-02-0556	650/9-75-001b
68-02-0557	650/3-73-002
68-02-0561	650/2-73-025
68-02-0563	650/2-74-014
68-02-0564	650/2-73-050
68-02-0566	650/2-74-044
68-02-0570	650/2-73-040
68-02-0574	650/4-74-009
68-02-0575	650/2-74-094
68-02-0578	650/2-73-052
68-02-0579	650/2-74-016
68-02-0580	650/4-74-011
68-02-0580	650/4-74-040
68-02-0580	650/4-75-026
68-02-0581	650/2-74-060
68-02-0584	650/2-75-015
68-02-0585	650/2-73-032
68-02-0586	650/1-75-005
68-02-0587	650/2-73-030
68-02-0588	650/2-73-008
68-02-0590	650/2-74-039
68-02-0591	650/2-74-133
68-02-0592	650/2-75-013a
68-02-0595	650/1-74-003
68-02-0600	650/2-73-007
68-02-0603	650/2-74-031a
68-02-0603	650/2-74-031b
68-02-0605	650/2-75-027a
68-02-0605	650/2-75-027b
68-02-0605	650/2-75-027c
68-02-0609	650/2-75-051a
68-02-0622	650/2-73-028
68-02-0623	650/4-74-013
68-02-0623	650/4-74-021
68-02-0623	650/4-74-024
68-02-0623	650/4-74-025
68-02-0625	650/2-74-103
68-02-0626	600/4-76-014
68-02-0626	650/4-74-022
68-02-0626	650/4-74-026
68-02-0626	650/4-74-028
68-02-0626	650/4-74-029
68-02-0626	650/4-74-033
68-02-0626	650/4-74-039
68-02-0626	650/4-75-003
68-02-0626	650/4-75-009

CONTRACTS

PROJECT NO.	REPORT NO.
68-02-0628	650/2-74-023
68-02-0629	600/2-76-101
68-02-0629	650/2-74-009a
68-02-0629	650/2-74-009b
68-02-0629	650/2-74-009c
68-02-0629	650/2-74-009d
68-02-0629	650/2-74-009e
68-02-0629	650/2-74-009f
68-02-0629	650/2-74-009g
68-02-0629	650/2-74-009h
68-02-0629	650/2-74-009i
68-02-0629	650/2-74-009j
68-02-0629	650/2-74-009k
68-02-0629	650/2-74-009l
68-02-0629	650/2-74-009m
68-02-0630	650/2-74-076
68-02-0634	650/2-74-002a
68-02-0634	650/2-74-002b
68-02-0635	600/2-76-039
68-02-0636	600/2-75-012
68-02-0636	650/2-75-020
68-02-0637	650/2-74-119a
68-02-0637	650/2-74-119b
68-02-0647	650/2-74-025
68-02-0647	650/2-74-025a
68-02-0648	650/2-75-001a
68-02-0648	650/2-75-001b
68-02-0650	600/2-75-037
68-02-0650	650/2-74-062
68-02-0650	650/2-74-062a
68-02-0652	650/4-74-020
68-02-0653	650/2-74-069
68-02-0654	650/4-74-017
68-02-0656	650/2-74-020
68-02-0657	650/2-74-006
68-02-0658	650/2-73-009
68-02-0660	650/2-75-008
68-02-0662	650/2-74-008a
68-02-0665	650/4-74-049
68-02-0680	650/4-74-010
68-02-0698	650/2-75-068
68-02-0699	650/4-75-005
68-02-0713	650/1-74-013
68-02-0716	650/2-74-055
68-02-0742	650/2-74-089
68-02-0744	650/4-75-014
68-02-0745	650/4-74-042

PROJECT NO.	REPORT NO.
CONTRACTS	
68-02-0752	600/4-75-009
68-02-0757	650/2-74-046a
68-02-0757	650/2-74-046b
68-02-0760	650/4-74-051
68-02-0771	650/3-75-004
68-02-0778	650/2-74-056
68-02-0782	650/2-74-065
68-02-0788	650/4-74-052
68-02-0792	650/3-75-010
68-02-0798	650/4-74-036
68-02-0799	600/3-76-030a
68-02-0799	600/3-76-030b
68-02-0800	650/4-74-044
68-02-0994	650/4-74-038
68-02-1006	600/4-76-013
68-02-1010	600/2-76-070
68-02-1010	600/7-76-018
68-02-1010	650/2-74-037a
68-02-1011	650/2-74-019
68-02-1013	650/2-75-031
68-02-1015	650/4-74-007
68-02-1068	650/2-74-106
68-02-1074	600/2-76-086a
68-02-1074	600/2-76-086b
68-02-1074	650/2-74-078a
68-02-1075	650/2-75-059
68-02-1079	650/2-74-108
68-02-1081	600/3-76-011a
68-02-1081	600/3-76-011b
68-02-1081	600/3-76-011c
68-02-1081	600/3-76-016
68-02-1081	600/4-76-032
68-02-1081	600/4-76-040
68-02-1081	650/3-75-009
68-02-1082	600/2-75-018
68-02-1087	600/2-76-009
68-02-1092	650/2-75-061a
68-02-1093	650/2-74-058
68-02-1093	650/2-74-058a
68-02-1098	650/4-74-023
68-02-1098	650/4-75-001
68-02-1099	600/2-75-078
68-02-1099	600/2-76-153
68-02-1145	650/1-74-009
68-02-1201	650/2-75-050
68-02-1205	600/1-76-010a
68-02-1206	650/4-75-008

PROJECT NO.	REPORT NO.
CONTRACTS	
68-02-1207	650/4-74-001
68-02-1208	650/2-75-041
68-02-1209	650/2-75-039
68-02-1210	600/1-75-004
68-02-1210	650/2-75-049
68-02-1217	650/3-75-002
68-02-1223	600/2-75-067
68-02-1224	650/2-75-069
68-02-1225	650/2-74-059
68-02-1226	600/1-76-014
68-02-1226	600/1-76-020
68-02-1226	600/1-76-027a
68-02-1226	600/1-76-027b
68-02-1227	600/2-75-024
68-02-1228	600/2-75-076
68-02-1228	650/2-74-121
68-02-1229	650/2-74-120
68-02-1230	650/2-75-056
68-02-1233	650/4-74-043
68-02-1234	650/4-74-005a
68-02-1234	650/4-74-005b
68-02-1234	650/4-74-005c
68-02-1234	650/4-74-005d
68-02-1234	650/4-74-005h
68-02-1234	650/4-74-005k
68-02-1234	650/4-74-005l
68-02-1234	650/4-74-005m
68-02-1234	650/4-74-005n
68-02-1234	650/4-74-005o
68-02-1235	650/4-74-050
68-02-1236	650/2-75-055
68-02-1237	600/4-76-016a
68-02-1237	600/4-76-016a-d
68-02-1237	600/4-76-016b
68-02-1237	600/4-76-016c
68-02-1237	600/4-76-016d
68-02-1238	650/4-74-006
68-02-1242	650/4-74-016
68-02-1243	600/1-76-021
68-02-1244	600/2-76-170
68-02-1255	650/2-75-007
68-02-1266	650/1-75-004
68-02-1268	650/2-75-029
68-02-1274	600/1-76-019
68-02-1274	650/1-74-008
68-02-1275	600/2-75-048
68-02-1277	650/1-75-002

PROJECT NO.	REPORT NO.
CONTRACTS	
68-02-1279	650/2-75-054
68-02-1282	650/2-75-028
68-02-1287	600/1-76-018
68-02-1289	600/1-76-005
68-02-1292	650/2-75-053a
68-02-1292	650/2-75-053b
68-02-1293	600/4-76-021
68-02-1293	600/4-76-022
68-02-1295	600/2-76-157
68-02-1297	600/4-76-007
68-02-1302	600/2-75-051
68-02-1303	600/2-75-015
68-02-1303	600/2-75-017
68-02-1303	600/2-76-144
68-02-1303	650/2-74-079
68-02-1303	650/2-74-114
68-02-1303	650/2-74-124
68-02-1305	600/4-76-009
68-02-1306	650/2-74-085b
68-02-1306	650/2-74-086a
68-02-1306	650/2-74-086b
68-02-1307	600/2-76-258
68-02-1307	600/2-76-259
68-02-1308	600/2-75-056
68-02-1308	600/2-76-044a
68-02-1308	600/2-76-044b
68-02-1308	650/2-74-028
68-02-1308	650/2-74-072
68-02-1308	650/2-74-098
68-02-1308	650/2-74-098a
68-02-1308	650/2-74-116
68-02-1308	650/2-74-127
68-02-1308	650/2-74-130
68-02-1308	650/2-75-016
68-02-1308	650/2-75-017
68-02-1308	650/2-75-030
68-02-1308	650/2-75-033
68-02-1309	650/2-75-018
68-02-1310	600/4-75-016a
68-02-1310	600/4-75-016b
68-02-1310	650/4-74-035
68-02-1312	600/7-76-011
68-02-1313	600/2-76-142
68-02-1314	650/2-75-042
68-02-1316	600/2-75-054
68-02-1316	600/2-76-035
68-02-1316	600/2-76-046a

PROJECT NO.	REPORT NO.
CONTRACTS	
68-02-1316	600/2-76-046b
68-02-1316	600/2-76-046c
68-02-1316	600/2-76-055
68-02-1316	600/2-76-069
68-02-1316	600/7-76-017
68-02-1316	650/2-74-036
68-02-1316	650/2-74-043
68-02-1316	650/2-74-083
68-02-1318	600/2-75-046
68-02-1318	600/2-76-037
68-02-1318	600/2-76-052
68-02-1318	600/2-76-097
68-02-1318	600/2-76-121
68-02-1318	600/7-76-01[illegible]
68-02-1318	650/2-74-091
68-02-1318	650/2-74-123
68-02-1319	600/2-75-042
68-02-1319	600/2-75-068
68-02-1319	600/2-76-049a
68-02-1319	600/2-76-049b
68-02-1319	600/2-76-051a
68-02-1319	600/2-76-051b
68-02-1319	600/2-76-051c
68-02-1319	600/2-76-051e
68-02-1319	600/2-76-051f
68-02-1319	600/2-76-051g
68-02-1319	600/2-76-064
68-02-1319	600/2-76-092
68-02-1319	650/2-74-033
68-02-1319	650/2-75-065
68-02-1320	600/2-75-045
68-02-1320	650/2-74-021
68-02-1320	650/2-74-041
68-02-1320	650/2-74-082
68-02-1320	650/2-74-117
68-02-1320	650/2-75-019a
68-02-1320	650/2-75-046
68-02-1321	600/2-76-013a
68-02-1321	600/2-76-013b
68-02-1321	600/2-76-150
68-02-1321	650/2-74-101
68-02-1321	650/2-74-115
68-02-1321	650/2-74-122
68-02-1321	650/2-75-057a
68-02-1321	650/2-75-057b
68-02-1321	650/2-75-057c
68-02-1321	650/2-75-057d

PROJECT NO.	REPORT NO.
CONTRACTS	
68-02-1321	650/2-75-057e
68-02-1321	650/2-75-057f
68-02-1321	650/2-75-057g
68-02-1321	650/2-75-057h
68-02-1321	650/2-75-057i
68-02-1321	650/2-75-057j
68-02-1321	650/2-75-057k
68-02-1322	600/2-76-010
68-02-1322	600/2-76-119
68-02-1323	600/2-75-066
68-02-1323	600/2-75-073
68-02-1323	600/2-76-002
68-02-1323	600/2-76-014
68-02-1323	600/2-76-015
68-02-1323	600/2-76-054
68-02-1323	600/2-76-056
68-02-1323	600/2-76-076
68-02-1323	600/2-76-099
68-02-1323	600/2-76-130
68-02-1323	600/2-76-167
68-02-1323	600/2-76-268
68-02-1323	600/2-76-269
68-02-1323	650/2-74-052
68-02-1323	650/2-74-099
68-02-1323	650/2-74-100
68-02-1323	650/2-75-034
68-02-1323	650/2-75-038
68-02-1324	600/2-75-020
68-02-1324	600/2-76-001
68-02-1324	600/2-76-040
68-02-1324	600/2-76-041
68-02-1324	600/2-76-066
68-02-1324	600/2-76-067
68-02-1324	600/2-76-120
68-02-1324	600/2-76-133
68-02-1324	600/2-76-172
68-02-1324	600/2-76-173
68-02-1324	600/2-76-174
68-02-1324	600/2-76-208
68-02-1324	600/2-76-209
68-02-1324	600/2-76-257
68-02-1324	650/2-74-073
68-02-1324	650/2-75-044
68-02-1324	650/2-75-066
68-02-1325	600/2-76-087
68-02-1325	600/2-76-149
68-02-1325	600/2-76-155
CONTRACTS	
68-02-1325	600/2-76-199
68-02-1325	600/2-76-212
68-02-1325	650/2-74-097
68-02-1325	650/2-74-118
68-02-1325	650/2-75-021
68-02-1328	600/2-75-021a
68-02-1328	600/2-76-200
68-02-1328	650/2-74-112
68-02-1329	650/2-75-032a
68-02-1329	650/2-75-032b
68-02-1329	650/2-75-032c
68-02-1329	650/2-75-032d
68-02-1331	600/2-76-079
68-02-1332	600/2-76-161a
68-02-1332	600/2-76-161b
68-02-1332	600/2-76-166
68-02-1336	600/2-76-143a
68-02-1336	600/2-76-143b
68-02-1339	650/2-74-067
68-02-1345	600/2-76-249a
68-02-1345	600/2-76-249b
68-02-1348	650/2-74-090
68-02-1352	650/2-74-030
68-02-1353	600/2-76-065
68-02-1353	650/2-74-088
68-02-1359	600/2-76-248
68-02-1360	600/2-76-098a
68-02-1360	600/2-76-098b
68-02-1363	650/4-74-019a
68-02-1363	650/4-74-046
68-02-1363	650/4-75-011
68-02-1363	650/4-75-013
68-02-1364	600/2-75-014
68-02-1365	650/2-75-060
68-02-1367	650/2-73-005a
68-02-1367	650/2-73-005b
68-02-1398	600/2-76-073
68-02-1398	600/2-76-080
68-02-1398	600/2-76-081
68-02-1398	600/2-76-083
68-02-1398	600/2-76-159
68-02-1401	600/2-76-047
68-02-1404	600/2-76-124
68-02-1404	600/2-76-176
68-02-1405	600/2-76-036a
68-02-1405	600/2-76-036b
68-02-1405	600/2-76-036c

PROJECT NO.	REPORT NO.
CONTRACTS	
68-02-1405	600/2-76-036d
68-02-1405	600/2-76-036e
68-02-1405	600/2-76-036f
68-02-1405	600/2-76-036g
68-02-1405	600/2-76-036h
68-02-1405	600/2-76-036i
68-02-1405	600/2-76-036j
68-02-1405	600/2-76-036k
68-02-1406	600/2-76-048a
68-02-1406	600/2-76-048b
68-02-1406	650/2-75-026a
68-02-1406	650/2-75-026b
68-02-1409	600/2-76-072
68-02-1411	600/2-76-122
68-02-1411	600/2-76-201
68-02-1412	600/2-76-093b
68-02-1412	600/2-76-160a
68-02-1412	600/2-76-203
68-02-1436	650/2-75-035
68-02-1438	600/2-75-013a
68-02-1438	600/2-76-077a
68-02-1439	650/2-75-064
68-02-1453	600/2-76-125
68-02-1480	600/2-76-164
68-02-1480	650/2-74-129
68-02-1480	650/2-74-129a
68-02-1482	600/9-76-020
68-02-1485	600/2-76-090
68-02-1487	600/2-76-202
68-02-1487	650/2-75-024a
68-02-1496	600/2-76-154a
68-02-1496	600/2-76-154b
68-02-1496	650/2-75-058a
68-02-1660	600/2-76-059
68-02-1701	600/1-76-010b
68-02-1703	600/1-76-012
68-02-1704	600/4-76-029a
68-02-1704	600/4-76-029b
68-02-1704	600/4-76-029c
68-02-1713	600/1-76-028
68-02-1714	600/3-76-018a
68-02-1714	600/3-76-018b
68-02-1715	600/1-76-031
68-02-1717	600/1-76-030
68-02-1722	600/2-75-053
68-02-1723	600/1-76-001
68-02-1727	600/1-76-017

PROJECT NO.	REPORT NO.
CONTRACTS	
68-02-1728	600/4-76-008
68-02-1728	600/4-76-015
68-02-1729	600/4-76-031
68-02-1731	600/2-76-034
68-02-1735	600/3-76-091
68-02-1737	600/1-76-034
68-02-1740	650/4-75-024a
68-02-1740	650/4-75-024b
68-02-1740	650/4-75-024c
68-02-1740	650/4-75-024d
68-02-1740	650/4-75-024e
68-02-1740	650/4-75-024f
68-02-1740	650/4-75-024g
68-02-1740	650/4-75-024h
68-02-1743	600/2-76-171
68-02-1748	600/2-76-096
68-02-1749	600/2-76-062
68-02-1752	650/2-75-062
68-02-1753	600/3-75-003a
68-02-1753	600/3-75-003b
68-02-1755	600/2-76-169
68-02-1767	600/4-76-037
68-02-1773	600/2-75-077
68-02-1785	600/3-76-090
68-02-1792	600/2-75-052
68-02-1802	600/2-75-074
68-02-1808	650/2-75-040
68-02-1814	600/2-75-050
68-02-1814	600/7-76-008
68-02-1816	600/2-76-042
68-02-1819	600/2-76-038
68-02-1821	600/7-76-022
68-02-1831	600/2-76-057
68-02-1833	600/4-75-005a
68-02-1833	600/4-75-005b
68-02-1834	600/2-76-138
68-02-1835	600/2-76-053
68-02-1843	600/2-76-102
68-02-1851	650/2-75-005a
68-02-1851	650/2-75-005b
68-02-1859	600/2-76-093a
68-02-1859	600/2-76-137
68-02-1869	600/2-76-118
68-02-1873	600/2-76-247a
68-02-1874	600/2-76-032a
68-02-1874	600/2-76-032b
68-02-1874	600/2-76-032c

PROJECT NO.	REPORT NO.
CONTRACTS	
68-02-1874	600/2-76-032d
68-02-1874	600/2-76-032e
68-02-1875	600/2-76-140
68-02-1882	600/2-76-012a
68-02-1882	600/2-76-012b
68-02-1888	600/2-76-256
68-02-1944	600/1-76-009
68-02-1973	650/2-73-045
68-02-2012	650/2-73-044
68-02-2110	600/2-76-089a
68-02-2110	600/2-76-089b
68-02-2110	600/2-76-089c
68-02-2110	600/2-76-246
68-02-2112	600/2-76-177a
68-02-2112	600/2-76-177b
68-02-2114	600/2-76-141
68-02-2114	600/7-76-016
68-02-2128	600/2-76-009a
68-02-2219	600/2-76-210
68-02-2220	600/2-76-211
68-02-2266	600/1-76-029
68-02-2323	650/2-75-063
68-02-4191	600/2-76-008
68-03-0006	670/2-73-052
68-03-0032	670/2-73-014
68-03-0032	670/2-73-015
68-03-0032	670/2-73-016
68-03-0046	670/2-73-013
68-03-0047	670/5-74-003
68-03-0049	670/2-73-006
68-03-0050	670/2-73-066
68-03-0060	670/2-73-056
68-03-0089	670/2-73-053A
68-03-0089	670/2-73-053A-P
68-03-0089	670/2-73-053B
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68-03-0089	670/2-73-053P
68-03-0094	600/2-76-216
68-03-0094	600/2-76-229
68-03-0095	670/2-74-019
68-03-0095	670/2-74-020
68-03-0095	670/2-74-021
68-03-0102	670/2-75-045
68-03-0123	670/2-75-024
68-03-0126	670/1-75-001
68-03-0128	670/2-75-023
68-03-0138	670/2-74-078
68-03-0140	670/2-75-049
68-03-0144	600/2-76-198
68-03-0145	670/2-75-014
68-03-0148	670/2-75-038
68-03-0152	600/2-75-035
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68-03-0183	670/2-74-038
68-03-0183	670/2-74-065
68-03-0183	670/2-74-066
68-03-0183	670/2-74-068
68-03-0193	670/5-75-001
68-03-0203	670/2-75-012
68-03-0220	670/2-74-056
68-03-0221	670/2-75-007
68-03-0228	670/2-75-004
68-03-0233	660/2-73-026
68-03-0244	670/2-74-095a
68-03-0244	670/2-74-095b
68-03-0250	600/2-76-146
68-03-0251	600/2-76-175a
68-03-0251	600/2-76-175b
68-03-0260	670/2-74-082
68-03-0261	600/3-76-071a
68-03-0261	600/3-76-071b
68-03-0262	670/2-74-087
68-03-0262	670/2-75-067
68-03-0268	670/2-74-003
68-03-0271	600/3-76-048
68-03-0272	600/2-75-062
68-03-0272	600/2-76-271

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68-03-0272	670/2-75-011
68-03-0283	670/2-74-039
68-03-0286	600/2-75-041
68-03-0288	660/3-75-024
68-03-0298	660/3-75-018
68-03-0302	600/2-76-116
68-03-0304	600/2-76-245
68-03-0327	670/2-75-066
68-03-0331	600/2-76-263
68-03-0334	600/2-75-038
68-03-0335	600/2-76-145
68-03-0349	600/2-76-180
68-03-0359	600/2-76-242
68-03-0409	600/2-75-065
68-03-0409	600/2-76-006
68-03-0417	600/2-76-181
68-03-0426	600/2-75-027
68-03-0430	600/2-76-050
68-03-0439	660/3-75-037
68-03-0442	600/2-76-105
68-03-0443	600/4-76-018
68-03-0455	600/2-76-103
68-03-0456	600/2-76-270
68-03-0470	600/2-75-040
68-03-0473	600/4-76-043
68-03-0473	600/4-76-050
68-03-0499	600/2-76-058
68-03-2016	600/7-76-004a
68-03-2016	600/7-76-004b
68-03-2052	600/3-75-011
68-03-2053	600/2-76-078
68-03-2075	600/4-76-049
68-03-2121	600/2-76-115
68-03-2134	600/2-76-255
68-03-2136	660/2-75-011
68-03-2139	600/2-76-117
68-03-2176	600/3-76-034
68-03-2333	600/4-76-052
68-03-2395	600/2-76-148
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AP 01186	650/3-74-003
AP-01269-02	650/2-74-005
DA-6-99-2294A	600/3-76-087
EC-00281	670/9-73-035
EC-0030-03	670/2-73-089A
EC-0030-03	670/2-73-089B
EC-00600	670/5-74-002

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EP-00242	670/2-74-027
EP-00248	670/2-73-023
EP-00250	670/2-73-063
EP-00254	670/2-73-085
EP-00257	670/2-73-065
EP-00259	670/2-73-072
EP-00261	670/2-73-048
EP-00262-02	670/2-73-009
EP-00265	670/2-73-083
EP-00266	670/2-73-039
EP-00268	670/2-73-061
EP-00274	670/2-73-090
EP-00276-04	670/2-73-005
EP-00279	670/2-73-011
EP-00283	670/2-73-025
EP-00302	670/2-73-051
EP-00304	670/2-73-087
EP-00316	670/2-73-041
EP-00319	670/2-73-034
EP-00328	670/2-73-095
EP-00329	660/2-73-038
EP-00329	670/2-73-038
EP-00329	670/2-75-053
EP-00362	670/2-73-030
EP-00386	670/2-73-049
EP-00393	670/2-73-021
EP-00458	670/5-73-020
EP-00458	670/5-74-001
EP-00500-01	670/2-74-014
EP-00829-01	660/2-74-081
EP-01030	670/5-74-006
P5-01-1805	600/1-75-002
UI-00509	670/2-73-057
UI-00557	670/2-73-017
WP 01351-01	660/3-74-014
WP-01322-02	670/2-73-027
WPD 184-01-67	660/2-74-030
WPD-112-01-66	670/2-75-054
WPRD 121-01-68	670/2-73-024
WPRD 139-01-68	600/2-75-060
WPRD 16-01-67	670/2-75-037
WPRD 185-01-68	660/2-73-015
WPRD 23-01-68	670/2-73-098
WPRD 242-01	670/2-73-092
WPRD 247-01	670/2-74-061
WPRD 263-01-68	600/2-76-027
WPRD 263-01-68	600/2-76-028

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WPRD 263-01-68	600/2-76-031
WPRD 3-01-68	660/2-74-035
WPRD 30-01-0067	670/2-73-096
WPRD 4-01-67	670/2-74-077
WPRD 4-01-67	670/2-75-027
Y005141	600/2-76-218
1-f1-WP-26, 212	600/3-76-039
11010 DYO	670/2-75-060
11010 ELP	670/2-73-024
11010 ENK	670/2-73-103
11010 EZJ	600/2-76-264
11010 EZQ	670/2-73-098
11010 FAC	600/2-75-049
11010 FAC	600/3-76-003
11010 FLQ	670/2-73-050
11010 FYM	670/2-73-033
11010 GAK	600/2-76-134
11010 GWI	600/2-73-004
11020 DXH	600/2-76-272
11020 EZW	600/2-76-228
11020 FAM	670/2-74-079
11020 FAN	670/2-73-071
11020 FAU	600/2-75-071
11020 FAX	670/2-75-020
11022 ELK	670/2-74-022
11022 FLV	670/2-75-035
11023 EKC	670/2-75-019
11023 FAO	600/2-76-222a
11023 FAO	600/2-76-222b
11023 FAR	670/2-75-010
11023 FAS	670/2-73-067
11024 DQU	600/2-76-217a
11024 DQU	600/2-76-217b
11024 EVF	600/2-73-002
11024 FVQ	600/2-76-243
11030 HJP	670/2-74-096
11060 DJB	600/2-76-236
11060 DRO	660/2-73-038
11060 FRQ	600/2-75-030
11060 GVT	670/2-74-062
12010 DNF	660/2-74-050
12010 DOT	670/2-74-059
12010 DRH	660/2-73-033
12010 DSA	670/2-74-042
12010 FNM	660/2-73-032

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GRANTS	
12010 FXD	670/2-75-018
12010 GUG	600/2-75-028
12020 EGC	600/2-76-123
12020 EMI	600/2-76-223
12020 ERM	670/2-74-044
12020 FOH	600/2-76-195
12020 GUT	600/2-76-260
12040 DEH	660/2-74-069
12040 DRY	660/2-74-008
12040 EJU	660/2-75-004
12040 FED	600/2-76-252
12040 GOD	660/2-73-028
12040 HDU	660/2-74-086
12050 GTR	660/2-75-020
12060 DEQ	600/2-76-254
12060 DFF	660/2-74-027
12060 DQV	660/2-73-015
12060 EGV	660/2-74-031
12060 EIG	660/2-74-088
12060 EKQ	660/2-74-012
12060 ESC	660/2-74-093
12060 ESY	660/2-74-035
12060 FAK	660/2-74-028
12060 FLL	660/2-74-014
12060 FRW	660/2-73-020
12060 FRW	660/2-73-021
12060 FYG	660/2-74-060
12060 HCW	660/2-74-059
12060 HFY	660/2-74-092
12060 HNG	660/2-74-046
12060 HPC	660/2-75-002
12070 HEK	660/2-73-023
12080 GCH	660/2-74-040
12090 HLO	660/2-74-039
12110 GLP	660/2-73-018
12110 HIG	600/2-76-231
12120 FYV	660/2-73-037
12120 GLE	660/2-74-007
12120 HMZ	660/2-75-006
12130 DBF	660/2-73-010
12130 EKK	660/2-74-020
12130 HFX	660/2-73-036
12130 HRA	660/2-74-055
13020 DTV	660/2-74-005
13020 DWH	660/2-74-033
13020 EBL	660/2-74-032
13040 DFN	660/2-74-030

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13040 ERR	660/2-74-009
13040 EVM	660/2-74-047
13040 FYK	660/2-74-057
14010 EFJ	670/2-73-092
14010 EFL	670/2-73-054
14010 EFN	670/2-73-093
14010 FWW	600/2-76-114
14010 GCM	600/2-76-111
14010 HIN	600/2-76-106
14010 HQC	670/2-74-009
14020 EHW	660/2-74-019
14020 FVW	660/2-74-037
14040 FVD	660/2-74-018
14040 FZC	670/2-73-080
15010 PBK	670/2-73-088
15020 HKQ	670/2-74-063
15030 FMZ	660/2-73-035
15030 HIX	660/2-74-043
15080 EJQ	670/2-73-099
15080 HET	670/2-73-068
15080 HGX	600/2-76-127
16010 DBU	660/3-74-034
16010 DCK	660/3-73-002
16010 DFI	660/3-73-001
16010 DHN	660/3-73-003
16010 EDJ	660/3-73-006
16010 EJH	660/3-73-015
16010 ELF	660/3-74-017
16010 EQQ	660/2-74-010
16020 DHD	670/2-73-079
16020 EDG	660/2-74-021
16020 EGG	660/3-74-026
16020 GIY	670/4-74-004
16030 ELZ	660/2-73-027
16040 FRL	660/2-73-008
16050 DDK	660/3-73-009
16050 DIL	660/2-74-082
16050 DIL	660/2-74-083
16050 DIL	660/3-73-011
16050 DXM	660/3-73-008
16050 ESP	660/3-74-002
16050 GQQ	660/3-73-025
16070 DEP	660/3-74-004a
16070 DEP	660/3-74-004b
16070 DGO	660/3-75-025
16070 DGY	660/3-73-010
16070 EKZ	660/3-73-005

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16070 FBY	660/2-73-029
16080 DPC	600/2-76-005a
16080 DPC	600/2-76-005b
16080 DYJ	660/2-74-016
16080 FBH	660/2-73-022
16080 FWE	600/2-74-003
16080 FYW	660/2-73-025a
16080 FYW	660/2-73-025b
16100 FWQ	660/3-73-018
16100 PAK	660/2-73-017
16110 GEW	600/5-74-013
16130 FDQ	660/2-73-012
16130 GNK	660/2-73-011
16130 GSD	660/2-73-003
16130 HKK	660/2-73-004
17010 EBM	670/2-73-027
17020 EPF	670/2-74-012
17030 DMA	670/2-73-074
17030 DUW	670/2-74-047
17030 EBH	600/2-75-039
17040 DSR	670/2-74-077
17050 DBI	670/2-74-018
17050 DFJ	600/2-75-032
17050 EEY	670/2-74-048
17060 DNU	670/2-73-029
17060 EYZ	670/2-73-082
17070 HDA	670/2-74-004
17080 FSF	670/2-73-064
17080 GCI	600/2-76-022
17080 HHV	670/2-74-080
18050 DET	660/3-74-003
18050 DFQ	660/3-73-016
18050 DIJ	660/3-73-020
18050 DMB	660/3-73-017
18050 DPL	660/3-73-019
18050 ELT	660/3-74-006
18050 FLS	660/3-73-004
18080 DFU	660/3-74-014
18080 FBW	660/3-74-031
800042	650/2-75-002
800055	660/2-73-032
800055	670/2-73-032
800055	670/2-74-083
800055	670/2-74-084
800150	650/2-74-034
800171	600/3-76-021
800209	650/3-75-005

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GRANTS	
800230	600/1-76-015
800250	660/2-74-091
800261	660/2-73-019
800278	660/2-74-052
800278	660/2-74-084
800294	660/2-75-014
800312	660/2-75-017
800316	650/2-74-110
800351	670/2-74-032
800354	600/2-75-029
800355	600/3-76-069
800356	670/2-75-039
800359-02	600/4-76-034
800364	660/2-75-009
800365	660/3-75-013
800369	660/3-73-009
800371	600/3-76-022
800372	600/3-76-023
800373	660/3-74-016
800384	600/1-76-008
800397	650/4-74-032
800397	650/4-74-045a
800397	650/4-74-045b
800398	600/3-76-070
800399-06-01	600/3-76-064
800400	660/2-74-005
800401	660/2-74-033
800426	600/2-76-019
800426	660/2-74-049
800428	600/3-76-042
800430	600/3-76-063
800431-03-0	600/3-76-103
800432	670/2-75-033a
800432	670/2-75-033b
800432	670/2-75-033c
800432	670/2-75-033d
800435	660/3-75-014
800504	660/3-75-027
800510	600/3-76-060
800510	660/3-73-022
800536	660/3-75-021
800537-02	600/3-76-094
800602	670/2-74-030
800605	660/3-75-004
800608	660/3-75-022
800609	660/3-75-006
800610	600/3-76-065

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800610	660/3-75-005
800613	660/2-73-012
800613	660/2-74-085
800613	660/3-75-002
800613	660/3-75-038
800625	600/2-76-193
800650	670/2-74-013
800650	670/2-75-056
800652	670/2-74-015
800655	600/3-76-089
800662	600/4-75-004
800662	650/4-75-015
800674	670/5-74-004
800677	650/3-75-003
800678	660/2-74-003
800680	660/2-73-024
800685	670/2-73-060
800688	670/2-75-031
800700	600/3-76-009
800704	660/3-75-017
800707	670/2-73-022
800731	660/2-75-008
800736	660/3-74-025
800745	670/2-74-070
800746	660/2-74-046
800747	660/2-74-025
800766	660/2-75-021
800766	670/2-74-016
800767	600/2-76-187
800767	600/2-76-190
800767	660/2-74-063
800769	670/2-74-075
800778	660/3-74-028
800781	600/2-75-023
800786	670/2-75-040
800798	600/2-75-019
800818	600/3-76-101
800842	650/2-74-011
800845	650/3-75-006
800852	600/2-76-139
800853	660/2-74-029
800854	600/8-76-001a
800854	660/2-74-071
800857	600/2-74-009a
800857	600/2-74-009b
800857	600/2-74-009c
800863	600/2-76-186

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800866	650/2-73-011
800869	650/2-75-067
800897	600/2-75-063
800904	660/2-74-061
800909	660/2-74-004
800916	650/3-75-011
800921	660/2-74-048
800923	660/2-75-013
800929	600/2-76-060
800935	660/2-74-074
800938	670/2-75-030
800940	600/3-76-061a
800940	600/3-76-061b
800941	670/2-75-046
800943	660/2-74-053
800944-02-0	600/3-76-086
800945-01	600/2-76-261
800949	650/3-75-008
800950	650/2-74-095
800966	670/2-74-049
800984	600/3-76-024
800989	660/3-74-027
800991	660/2-74-079
800992	600/3-76-062a
800992	600/3-76-062b
800994	660/3-74-033
800997	660/2-73-002
801000	600/5-74-022
801003	660/3-75-003
801029	660/2-73-027
801030	600/2-76-220
801035-01	600/3-76-036
801036	660/3-74-007
801039	660/3-73-018
801040	660/2-75-005
801041	600/2-75-072
801062	660/3-74-029
801065	660/2-74-090
801078	600/2-76-225
801102	600/4-76-002
801106	600/4-76-046
801113	650/4-75-012
801119	600/3-76-093
801120	650/4-74-004
801124-03	660/3-75-026
801125	600/2-76-240
801128-02-2	600/3-76-007
GRANTS	
801136	650/3-74-006
801159	670/2-74-057
801174	600/3-76-085
801174	650/3-74-011
801178	600/3-76-004
801187	600/2-76-158
801192	600/2-75-055
801206	600/2-76-232
801207	660/2-73-030
801209	600/3-76-068
801226	600/5-74-027
801234	600/5-74-011
801236	670/2-75-006
801273	600/2-76-128
801276	600/2-76-108
801282	670/2-74-076a
801282	670/2-74-076b
801289	670/2-74-035a
801289	670/2-74-035b
801289	670/2-74-036a
801289	670/2-74-036b
801303	670/2-73-091
801321	650/2-73-020
801336	650/2-75-036
801340	650/3-74-007
801342	670/2-74-031
801343	660/3-74-020
801349	670/2-75-016
801353	600/2-76-110
801361	660/3-73-023
801362	660/3-73-024
801363	660/3-75-033
801374	600/5-73-016
801376	600/5-73-015
801381	660/3-75-030
801387	600/3-76-081
801393	650/1-74-010
801397	600/2-75-043
801399-02	600/2-76-020
801400	660/2-75-007
801411	600/5-74-020
801417	660/2-74-077
801419	600/5-75-003
801431	600/2-76-227
801432	660/2-75-001
801441	600/2-76-204
801446	650/2-74-007

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801454	660/2-75-003
801454-01	660/2-74-024
801454-03	600/2-76-189
801470	650/1-74-012
801473	600/5-73-012a
801473	600/5-73-012b
801473	600/5-73-012c
801473	600/5-73-012d
801473	600/5-73-012e
801481	600/5-74-029
801484	660/2-74-006
801490	650/2-73-014
801500	600/5-74-024
801521	600/5-73-007
801522	600/5-73-011
801577	660/2-74-094
801581-02-2	600/2-76-132
801603	650/2-74-063
801615	650/2-74-027
801622	670/2-75-034
801628	600/2-74-005
801630	670/2-74-094
801633	670/2-75-026a
801633	670/2-75-026b
801647	660/2-74-034
801650	650/1-74-011
801658	670/2-73-043
801662	660/2-74-064
801666	660/2-74-068
801673	600/5-75-010
801677	670/2-74-024A
801678	670/2-74-024B
801684	660/2-74-075
801799	670/2-75-061
801799	670/2-75-062
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801800	600/1-76-003
801830	670/2-74-073
801835	660/2-74-054
801837	600/1-76-004
801867	660/2-75-027
801870	670/5-74-007
801870	670/5-74-008
801870	670/5-74-009
801872	670/2-75-043
801876	660/2-74-044

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801944	670/2-75-032
801945	650/4-74-041
802003	600/2-75-031
802005	650/1-74-002
802009	600/2-76-239
802009-01	660/2-74-023
802022	600/1-76-002
802032	660/2-74-011
802043	650/1-75-003
802084	660/2-75-028
802111	600/2-76-063
802113	670/2-75-055
802168	660/2-75-026
802174	660/2-75-019
802196	600/2-76-194
802203	600/2-76-233
802204	600/2-75-075
802205	660/2-75-012
802210	600/3-76-051
802214	600/3-76-073
802219	670/2-74-026
802219	670/2-75-022
802254	670/2-73-104
802254	670/2-74-008
802269	650/2-74-080
802270	650/2-74-051
802291	650/2-74-048
802292	600/2-76-156
802309	600/2-76-082
802310	600/2-75-007
802348	660/3-75-015
802359	600/3-76-020
802366	650/2-75-012
802396	600/2-76-021
802400	670/2-75-021
802402	650/2-74-032
802411	670/2-75-017
802419-01	650/2-74-096
802423	600/5-75-008
802424	600/2-75-025
802433	600/2-76-244
802441	600/5-73-009
802443	600/5-75-005
802443	600/5-75-009
802444	600/5-74-021
802459	600/3-76-038
802464	600/3-76-044

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802475	670/2-74-054
802495	670/4-74-005
802499-01	650/2-75-023
802500	600/1-76-032
802526	600/2-76-183
802532	600/2-76-188
802575	600/5-75-017
802586	660/2-75-016
802603-01	600/2-76-184
802614	670/2-74-023
802621	670/2-75-048
802633	600/3-76-027
802637	670/2-75-015
802647	600/3-75-005
802670	600/3-76-059
802679-01	600/3-76-074
802682	600/2-76-196
802684	600/2-76-045
802716	670/2-75-041
802726	650/2-75-043
802730	600/2-76-147
802753	600/2-76-017
802755-01	600/4-76-020
802781	600/2-75-033
802816	600/2-76-206
802821	600/3-76-095
802836	600/5-75-018
802853-01-0	600/2-76-024
802864	600/2-76-226
802872	600/2-76-213a
802872	600/2-76-213b
802872	600/2-76-213c
802926	600/2-74-008
802933	600/2-76-238
802946	600/2-76-163
802966-01	600/3-76-012
802980-01	660/4-75-002
803006-01-1	600/4-76-005
803021	660/2-75-010
803026	600/2-75-025
803046-01	600/2-75-005
803049-01	600/5-75-016
803055-01-0	600/2-75-058
803056	600/5-75-012
803063	600/2-76-113
803063	600/2-76-129
803063	670/2-75-044
803063	670/2-75-059
803063-01	670/2-75-003
803069	670/2-75-065
803075	600/3-76-084
803099	600/2-76-104
803107-01	600/9-75-006
803111	670/2-75-058
803116-01-0	600/2-76-043
803119	600/2-76-221
803126-01	600/2-76-192
803172	600/4-76-048
803186	600/3-76-075
803207-01	600/2-76-178
803226-01	670/2-75-029
803264-01-0	600/2-76-197
803278	600/2-76-100
803283	600/7-76-012
803294	670/9-75-004
803307	600/2-76-253
803315-01-0	600/3-76-083
803362-01	600/5-76-009
803477	600/2-76-219
803514	600/4-76-039
803546	600/9-75-007
803556-01	600/2-75-059
803590	600/9-76-007a
803619	600/2-76-267
803663	600/9-76-004
803729	600/9-75-005
803794	600/2-76-207
803992	600/2-76-215
803992	600/2-76-266
803992-01	600/2-76-185
804330	600/9-76-015
820529-01	600/3-75-007
INTER-AGENCY	
IAG D4-F451	660/2-75-018
IAG D4-0446	660/2-75-015
IAG D4-0528	600/2-76-007
IAG D4-509	600/1-76-006
IAG 40-191-69	600/2-76-025
IAG-D4-F399	600/2-75-064
IAG-D4-0040	600/2-76-026
IAG-D4-0344	600/4-75-002
IAG-D4-0377	650/2-75-048
IAG-D4-0439	600/1-76-016
IAG-D4-0454	650/2-75-011

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IAG-D4-0501	600/2-76-075
IAG-D4-0569	600/2-76-182
IAG-D5-E681	600/7-76-007
IAG-D5-E681	600/7-76-019
IAG-D5-E721	600/7-76-005
IAG-D5-E721	600/7-76-020
IAG-D5-F468	600/2-76-237
IAG-D5-F694	600/2-76-250
IAG-D5-0416	600/3-76-031
IAG-D5-0416	600/3-76-032
IAG-D5-0721	600/7-76-021
IAG-D6-F344	600/2-76-265
IAG-P5-0685	600/2-76-091
IAG-0153(D)	600/3-75-013
IAG-0153D	600/3-76-076
IAG-0155	600/3-76-056
IAG-069	600/3-76-010
IAG-097(D)	650/2-75-014
IAG-100(D)	600/2-76-126
IAG-133-D	600/2-76-068a
IAG-133-D	600/2-76-068b
IAG-134(D)	600/2-75-006
IAG-141(D)	660/3-75-011
IAG-148	600/5-75-013
IAG-148(D)	600/5-75-002
IAG-152(D)	660/3-75-010
IAG-323	650/3-74-005
IAG0020(D)	650/2-74-038
IAG0077(D)	650/2-74-113
IAG0085(D)	650/2-73-006
IAG0134(D)	650/2-73-051
IAG0139(D)	650/2-74-070
IAG0149(D)	650/2-74-104
IAG0177(D)	650/2-73-034
IAG0199(D)	650/2-74-057
IAG0215	650/2-74-125
IAG085(D)	650/2-75-004
IAG31990A	650/2-74-049a
IAG4H374(D)	600/5-74-031
IAG40377(D)	650/4-74-030
PL-480:5-533-3	600/2-76-074
TV-30541A	650/2-73-019a
TV-30541A	650/2-73-019b
TV-30541A	650/2-73-019c